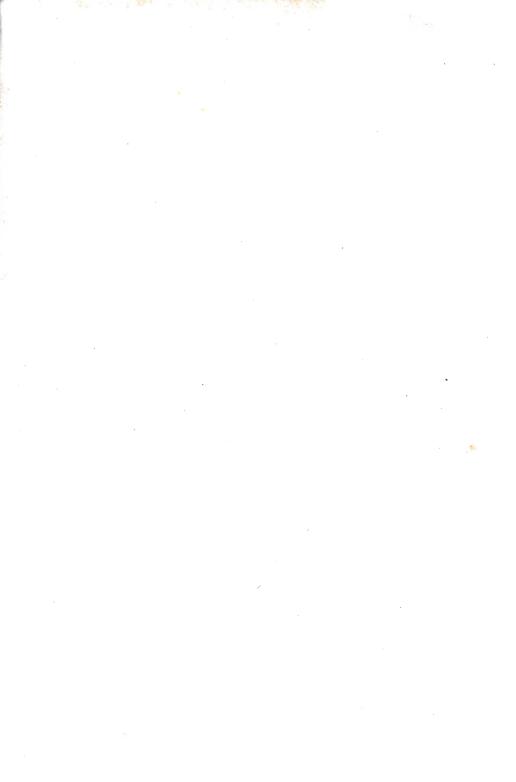


TRANSISTOR CROSS-REFERENCE GUIDE

MITSUBISHI TexasInstruments MOTOROLA SIEMENS FAIRCHILD **NATIONAL AEG-TELEFUNKEN** RCA **HITACHI** Westinghouse GENERAL ELECTRIC PHILIPS TOSHIBA



INTRODUZIONE

Questo interessante volume raccoglie circa 5.000 diversi tipi di transistori, prodotti dalle principali case europee ed americane per il settore di consumo, e fornisce di essi l'indicazione di un eventuale equivalente prodotto da case orientali.

Le case di produzione europee o americane considerate sono le seguenti:

MOTOROLA

PHILIPS

G.E. (General Electric)

R.C.A. (Radio Corp. of America)

T.I. (Texas Instruments Inc.)

WESTINGHOUSE

AEG-TELEFUNKEN

L'elencazione dei tipi di transistori prodotti da queste case si svolge simmetricamente sulle due pagine affiancate del volume, e precisamente, sulla pagina pari (a sinistra) vengono forniti i principali parametri elettrici e meccanici del transistore, mentre, sulla pagina dispari (a destra) sono indicati gli eventuali tipi equivalenti.

La descrizione del singolo tipo di transistore avviene secondo un ordine di informazioni; indicazione del tipo, materiale e polarità; parametri massimi; caratteristiche elettriche: contenitore.

Tali informazioni sono ricavate dai "data-sheet" della Casa produttrice, e si è ritenuto che esse siano sufficienti per un corretto riconoscimento del transistore, relativamente almeno ai più diffusi campi di impiego.

Più in particolare, la descrizione avviene secondo i seguenti titoli, di cui forniamo breve spiegazione:

\Box		7	ř	МА	XIMUM	RA	TINGS						ELE	CTRICA	L CHAR	ACTERI	STICS				_	75.64	
TYPE	USE	YER	SE SE	Pc 25°C	Tj	Vos	V œ	Ic	le	80		hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxitati	OUTLINE TO-	NOTE
	<u> </u>	ì	2	(mW)	(3)	(V)	(∀)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(Q)	(×10)	(µō)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
- 1		1	1						L		L								Т			1	1
1	2	3	4			5			le le	5)		7			į	8		9	10	Ü	1	12	13

- 1) Indicazione del tipo (in ordine alfabetico e numerazione progressiva).
- 2) Indicazione dell'impiego tipico cui il dispositivo è destinato. Le sigle hanno il seguente significato:

A = amplificatore (impiego generale)

AH = amplificatore per alta frequenza

APH = amplificatore di potenza per alta frequenza AP = amplificatore di potenza (impiego generale) S = commutatore (impiego generale)

SC = commutatore (sistemi logici) SH = commutatore ad alta velocità

SHP = commutatore di potenza ad alta velocità

SP = commutatore di potenza

P = transistore di potenza d'impiego generale
LF = transistore per impiego in bassa frequenza
HF = transistore per impiego in alta frequenza

Delf = stadi di riga e quadro dei televisori

AL = amplificatore sensibile alla luce
AM = multiple silicon annullar transistori (presente solo nei transistori
Motorola)

SW = commutatore ad alta velocità media potenza

3) Indicazione del materiale costituente:

G = Germanio

S = Silicio

4) Indicazione della polarità:

P = PNP

N = NPN

Alcuni tipi indicano transistori complessi (es. Darlington); nel caso essi comprendano transistori di entrambe le polarità, ne viene data indicazione con la sigla: 'P/N'.

5) Parametri limite; essi comprendono l'indicazione di:

Pc = Potenza massima a 25°C

T₁ = Temperatura massima della giunzione V_{CB} = Massima tensione fra collettore e base

 $m V_{CEO} \equiv Massima$ tensione fra emettitore e collettore, con circuito di base aperto

c = Massima corrente nel circuito di collettore.

- 6) Indicazione della corrente dispersa nel circuito di collettore (IcBo), relativa ad una data tensione fra collettore e base (VcB) e con circuito di emettitore aperto.
- Indicazione del guadagno in corrente continua nella configurazione ad emettitore comune (hfe - valori limite min. e max.), relativo ad una data corrente di collettore (Ic)
- 8) Indicazione dei principali parametri h, e precisamente:

h_{fe} = guadagno in corrente alternata per piccoli segnali, nella configurazione ad emettitore comune

 $h_{\text{\tiny le}} \equiv \text{impedenza}$ d'ingresso per piccoli segnali, nella configurazione ad emettitore comune

hre = rapporto di trasferimento di tensione inversa, su circuito aperto, nella configurazione ad emettitore comune

hoe = ammettenza d'uscita, per piccoli segnali, nella configurazione ad emettitore comune

- 9) Indicazione della frequenza di taglio ($f\tau$), definita come frequenza alla quale il guadagno in corrente per piccoli segnali, nella configurazione ad emettitore comune, approssima l'unità.
- 10) Indicazione della figura totale di rumore
- 11)Indicazione dei valori di capacità più importanti:

 $C_{\text{ob}} = \text{capacità d'uscita nella configurazione a base comune}$

Coxrbb = costante di tempo collettore-base

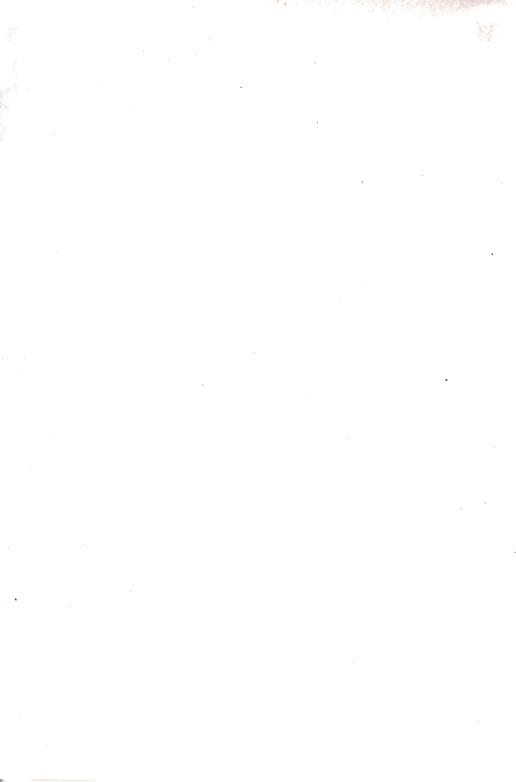
12) Indicazione del contenitore usato, secondo lo standard JEDEC (vedi il capitolo "Mechanical data")

Le Case produttrici orientali considerate per la ricerca dell'equivalente, sono le seguenti:

TOSHIBA
NEC
HITACHI
MITSUBISHI
MATSUSHITA
FUJITSU
SONY
SANIO

Riteniamo inutile ricordare i criteri normalmente impiegati nella compilazione delle tavole di equivalenza; ci interessa però sottolineare che, per i transistori, non è possibile garantire una equivalenza assoluta. Sebbene siano stati considerati i parametri principali in relazione all'uso tipico di ogni dispositivo, nel caso di applicazione particolari possono insorgere problemi non prevedibili. Ciò vale soprattutto nei circuiti per alte e altissime frequenze.

Per questi motivi suggeriamo un attento confronto dei parametri relativi alla configurazione d'impiego, per la verifica dell'indicazione di equivalenza.



Texas Instruments

		A	>	M/	AXIMUI	M R	ATINGS	3					EL	ECTRICA	L CHAR	ACTER	STICS					OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C (mW)	Tj (*C)	Voa (V)	VCEO (V)	Ic (mA)	loac (μ _A)	Vos(V)	min.	hre	lc(mA)	hfe	hie (Q)	hre (×10)	hoe	fi *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N117	A	s	N	150	175	45		25	2	30								** 4	20	7		1/4	
NI 18	A	s	N	150	175	45		25	2	30		-	_			-		** 5	20	7	_	1/4.	
NII8A	A	s	N	150	175	45		25	2	30						-		** 8	20	7	+-	1/4	300
NI 19	- A	s	N	150	175	45		25	2	30	 							**6	20	7	1	1/4	
N120	A	s	N	150	175	45		25	2	30								** 7	20	7	+	1/4	
2N243	A	s	N	750	150	60		60	1	30	_							-		L	+	(1)	-
2N244	A	S	N	750	150	60		60	i I	30		-								-	+	-	
2N332	A	S	N	150	175	45	45	25	2	30								**6	20	10	+	5	
2N333	A	S	N	150	175	45	45	25	2	30							_	** 8	20	10	+-	5	
2N333	A	S	N	150	175	45	45	25	2	30	<u> </u>							**10	20	10	+	5	
2N334 2N335	A	-	N	150	175		45	25	2	30		-						**11	20	10	+	5	
	A	S	N			45	45			30		-						**13	20	10	+	5	
2N336		S	1	150	175	45		25	2		_	-		-	_			**20	20	2	+	5	
2N337	\$W	S	N	125		45	45	20	1	20										2	+	5	
2N338	SW	S	N	125		45	45	20	1	20								**30	_				
2N339	Α	S	N	103	150	55	55	60	1	30		_				4				١.	\vdash	* H	
2N340	Α	S	N	10 ³	150	85	85	60	1	30		_						-		-	-	11	
2N341	Α	S	N	10 ³	150	125	85	60	1	30		_			57.52			-		-	-	11	
2N342	Α	S	N	10 ³	150	60	60	60	1	30										-		11	
2N343	Α	S	N	10 ³	150	60	60	60	1	30										_	4	11	
2N389	AP	S	N	85W	200		60				12	60	IA							<u> </u>		53	
A5T404	SW	S	Р	.625	150	25		150	0.1	12	30	400	12									1/17	
A5T404A	SW	S	Р	625	150	40		150	0.1	12	30	400	12									1/17	
A8T404	SW	S	Р	625	150	25		150	0.1	12	30	400	12									1/17	
A8T404A	SW	S	Р	625	150	40		150	0.1	12	30	400	12									1/17	
2N424	AP	S	N	85W TC25°C	200		80				12	60	IA									53	
2N456A	AP	G	Р	150W	100	40	30	7A	500	20	30	90	5A									3	
2N456B	AΡ	G	Р	150W	100	40	30	7A	500	20	30	90	5A						,			3	
2N457A	AP	G	Р	150W	100	60	40	7A	500	30	30	90	5A									3	
2N457B	AP	G	Р	150W	100	60	40	7A	500	30	30	90	5A									3	
2N458A	AP	G	Р	150W	100	80	45	7A	500	40	30	90	5A								1	3	
2N458B	AΡ	G	P	150W	100	80	45	7A	500	40	30	90	5A									3	
2N497	AP	s	N	4W	200	60	60		10	30	12	36	200	30	250		70					5	
2N498	AP	S	N	4W	200	100	100		10	30	12	36	200	30	250		70					5	
2N511	AP	G	P	150W	100	40	30	25A	5mA	40	20	60	10A									6/1	
2N511A	AP	G	P	150W	100	60	40	25A	5mA	60	20	60	IOA									6/1	
2N511B	AP	G	P	150W	100	80	45	25A	5mA	80	20	60	10A			 						6/1	
2N512	AP	G	P	150W	100	40	30	25A	5mA	40	20	60	15A									%1	
2N512A	AP	G	P	150W	100	60	40	25A	5mA	60	20	60	15A				Λ.,				_	6/1	
2N512B	AP	G	P	150W	100	80	45	25A	5mA	80	20	60	15A									%1	
2N656	AP	s	N	4W	200	60	60	-	10	30	30	90	200	60	350		90					5	
2N657	AP	s	N	4W	200	100	100		10	30	30	90	200	60	350		90					5	
2N696	AH	S	N	600	175	60			1	30	20	60	150	<u> </u>		+-				35		5	
2N697	AH	S	N	600	175	60			i	30	40	120	150		-	-	_			35		5	
2N698	AH	S	N	800	1.73	120			0.005	75	20	60	150		20	2.5	0.5			+ -		39	
2N699	AH	S	N	600		120			2	60	40	120	150		20	2.5	0.5		-			39	
2N717	SW	S	N	400	175	60			1	30	20	60	150	<u> </u>	20	2.3	0.5		-	35	-	18	
2N717	SW	S	N	400	175	60		_	-	30	40	120			-	-	_	-	-	35	+	18	
	_	-	-		_	_			· .		_	120		25		+		-		25	+	18	-
2N718A	SW	S	N	500	200	75			0.01	60	20	co	0.1	35 25	-	+	-	-		20	+	18	
2N719	SW	S	N	400		120			2	60	20	60	150		-	-		-		-	+	_	
2N719A	SW	S	N	500		120		103	0.01	75	20	60	150	25	-	-		<u> </u>		15	_	18	
2N720	SW	S	N	400		120			2	60	40	120	150	45		_				20	+	18	
2N720A	SW	S	-	500	<u> </u>	120			0.01	90	40	120	150	45						15	1	18	
2N721	SW	S	Р	400	175	50			1	30	15		5	20		_				45	-	18	
2N722	sw	S	Р	400	175	50			1	30	25		5	30		L				45	_	18	
2N730	SW	S	N	500	175	60		103	1	30	20	60	150							35		18	

E TOSHIBA	NEC NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITU	SONY	SANYO	NOTE
2SC100	0 2501428							27
2SC100	0 2SC1428							763
A 2SC100	2SC1428							100
2SC100	2SC1428							
2SC100	2SC1428				-			- 13
2SC497								135
2SC497								2.0
2SC1000	2SC1428							
2SC1000	2SC1428							- 1
2SC1000	2SC1428					:		
2SC1000	2SC1428							19
2SC1000	2SC1428						_	
2SC1000	2SC 1428							-
2SC1000	2SC 1428							
							_	
							_	
								- 11
2SC161	2SC242							
4 2SÀ501				2SA546A				7.7
4A 2SA501				2SA546A				- 1
4 2SA501				2SA546A				
4A 2SA501				2SA546A				
2SC161	2SC240	2SD125A						100
<u> </u>					75	2SB520		
3		*				2SB520		1.22
						2SB520		1114
						2SB520		- 6
Δ						2SB520	_	1
3						2SB520		
Δ ,		2SD120						
3		2SD121						
- I								
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								- 3
3			200		_		-	- 6
1						6		- 7
3								
		2SD120						
		2SD121			_			
			2SC1211	2SC456	2SC1247A			- 7
			2501211	2SC456	2SC1247A			- 1
								- 3
								- 5
2SC366(0		2SC1211	2SC456	2SC1247A			- 1
2SC366(2SCI211	2SC456	2SC1247A			- 1
200000			2501211	2SC456	2SC1247A	-	-	
2SC497	2SC959			2SC696 A				4 9
2SC497	2SC959-			2SC696 A	-			1
2SC497	2SC959		+	2SC696 A			-	
2SC497	2SC959			2SC696 A			-	- 1
200437	200333		254695					
	_							
250105						-		100
2SC495				2SA695 2SA695 2SC1211	2SA695 2SA546	2SA695 2SA546	2SA695 2SA546	2SA695 2SA546

		AL	7		XIMUN	A R	ATINGS			_				CHARA	CTERIST	1165		1.		-		OUTLINE	Contract of
TYPE	USE	MATERI	POLALITY	Pc 25*C	Tj (°C)	Vos (V)	Vere (V)	Ic (mA)	los			hre		hfe	hie (Ω)	hre (×10)	hoe (µō)	*fae **fab	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO.	NOTE
				(mW)			(V)		(μ A)	Vos(V)	min.	max.	lc(mA)		(36)	(~ 10)	(MO)	(MHz)	(40)	N. I	Yha.	18	1000
2N731	SW	S	N	500	175	60		IA	ł	30	40	120	150			ļ				33		2.7	
2N849	SW	S	Ν	300	175	25	15	50	0.5	15	20	60	10			-					11-19	50	
2N850	SW	S	Ν	300	175	25	15	50	0.5	15	40	120	10									50	HELD DY
2N851	SW	S	N	300	175	20	12	200			20	60	10									50	Thorn
2N852	SW	S	N	300	175	20	12	200			40	120	10				*		1			50	77 5
2N870	SW	S	N	500		100			0.01	75	40	120	150	45								39	11/2
2N871	SW	S	Ν	500		100			0.01	75	100	300	150	70	Ĭ.							39	
2N910	SW	S	N	500		100			25n	75	35		0.1	80								18	
2N911	SW	S	N	500		100			25n	75	20		0.1	40								18	
2N912	SW	S	N	500		100			25n	75	10		0.1	20		T						18	
2N917	АН	S	N	200	200	30	15		In	15				- 1								72	
2N918	АН	S	N	200		30	15	50	10n	15									60MHZ			72	
D2T918	АН	S	N	200	200	30	15	50	10n	15	20		3								-	156	
2N929	A	S	N	300	175	45	45	30	10n	45	40	120	0.01	60					4	8		18	
2N930	A	S	N	300	175	45	45	30	I0n	45	100	300	0.01	150					3	8		. 18	
2N956	HF	S	N	500	200	75		-	0.01	60	35	-	0.01	70		+-			8	. 8	T	18	
2N997	SW	S	N	500	200	75	40	300	10n	60	1000	+	0.01			1	-			35		18	DARLINGTON
2N998	SW	S	N	500	200	100	60	500	10n	90	800		0.01			-			_	30		72	DARLINGTON
	SW	-		500	200	60	60	500	10n	60	1000		0.01			+-	-				_	72	DARLINGTON
2N999		S	N P		100	100	50	7A	500	50	30	_	5		-	+-			-			3	
2N1021	AP	G	-	150W	100			7A	500	50	30	90	5	-		+					+	3	
2N1021A	AP	G	Р	150W	100	100	50			_	_	-			-	-			-	-		3	
2N1022	AP	G	Р	150W	100	120	55	7A	500	60	30	_	5		-	+-	-					3	
2N1022A	AP	G	Р	150W	100	120	55	7A	500	60	30	_	5		-	-			-	100	-	5	
2N1038	AP	G	Р	20W	100	40	40	3A	125	20	20	_	IA			-		-		100		5	_
2N1039	AP	G	Р	20W	100	60	60	3A	125	30	20	-	IA	-		+		-	-	100	+	5	
2N1040	AP	G	P	20W	100	80	80	3A .	125	40	20	-	IA		-	-	-	<u> </u>	-	100	+	5	
2N1041	AP	G	Р	20W	100	100	100	3A	125	50	20	_	IA			1	-	-			-	5	
2N1042	AP	G	Р	20W	100	40	40		125	20	20		_					_		100	-		
2N1043	AP	G	P	20W	100	60	60		125	30	20		3A		<u> </u>	<u> </u>	_			100	+		_
2N1044	AP	G	P	20W	100	80	80	3.5A	125	40	20	_	3A	6	0			_		100		1/63	
2N1045	AP	G	Р	20W	100	100	100	3.5A	125	50	20	60	3A							100			
2N1046	AP	G	Р	50W	100	100	50	12A	2mA	75	60	200	2A								ļ	3	
2N1047	AP	S	N	40W	200	80	80	500	15	30	12	36	500					50				57	
2N1047A	AP	S	N	40W	200	80	80	500	15	30	12	36	500				T	50				57	
2N1047B	AP	S	N	40W	200	80	80	750	15	30	12	36	500					50			T_	57	
2N1048	AP	S	N	40W	200	120	120	500	15	30	12	36	500					50				57	
2N1048A	AP	s	N	40W	200	120	120	500	15	30	12	36	500					50				57	
2N1048B	AP	-	N	40W	200	120	120	750	15	30	12	36	500					50			L	57	
2N1049	AP	_	N	40W	200	80	80	500	15	30		90	500					50				57	
2N1049A	AP	-	N	40W	200	80	80	500	15	30	30	90	500			1		50				57	
2N1049B	AP		N	40W	200	80		750	15	30	30		500	$\overline{}$				50				57	
2N1050	AP	_		40W	200	120		500	15	30	30			1				50			T	57	
2N1050A	AP	-	-	40W	200	120		500	15	30	30	_	-		t	+		50			1	57	
2N1050B	AP	_	-	40W	200	120	120	750	15	30	30	-			f			50				57	
2N1131	AP			600	175	50	35	600	1	30	20	_		20	+	+-	-	5		45		39	
2N1131	AP	_	-	600	175	50	35	600	i i	30	30			30		-		+ -		45	-	39	
2N1132 2N1149	-	1 S	-	150	175	45	33	25	2	30	1	1	1.50	+ "		+	+	+	-	7	_	1/63	
-	A	_					-	25	2	30	\vdash	+	-	+	+	+	+	1		7	_	1/63	
2N1150	A	S	_	150	175	45	-	-	2	30	_	+-	-	+	\vdash	-	+-	+-	+	7	_	1/63	
2N1151	A	S		150	175	45		25	_		_	+	+	-	-	+	+	+	-	<u> </u>	_	1/63	
2N1152	A	S		150	175	45	1	25	2	30	-	+	-	+	-	1	+-	+	-	7	_	/63 4/63	
2N1153	Α	S	_	150	175	45	-	25	2	30	-	+	-	+	-	-	+	+	-	+ '	-		-
2N1154	Α	S		750	150		-	60	5	50	-	1	-	\vdash	-	-	-	+	-	-		4/63	
2N1155	Α	S		750	150	_	-	50	6	80	-	1	1	_	-	-	4	\vdash	-	-		⁴ / ₆₃	-
2N1156	Α	S		750	150	_	_	40	8	120	-			_		1_	_	-		1		1/63	-
2N1420	AF	S	N	600	175	60		1A	1	30	100	300	150	L_		\perp						5	

							-		
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITU	SONY	SANYO	NOTE
2N731	2SC495		2501212		2SC456				2010
2N849			2SC282				2SC1128		1
2N850			2SC282				2SC1128		
2N851	2SC735		2SC321H				-	2SC423	1 11
2N852	2SC735		2SC321H		4	-		2SC423	
2N870	2SC497	2SC960			2SC696A		-		77
2N871	2SC497	2SC960	†		2SC696A				-40
2N910	2SC497	2SC960	1	_	2SC696A			-	7
2N911	2SC497	2SC960			2SC696A				
2N912	2SC497	2SC960			2SC696 A			DV.	
2N917	2SC373	2SC923	2SC458	2SC712		2SC724		2SC536	-
2N918	2SC373	2SC923	2SC 458	2SC712		2SC724		2SC536	- 1
D2T918	2000,0		100 111	200712					
2N929	2SC1000©	2SC899	2SC1345						
2N930	2SC1000©	2SC899	2SC1345	1	 				1
2N956				2SC1211	1	2SC1247A			1
2N997	2SC982			200.211		20012777	-		
2N998	2SC982				-		-	-	
2N999	2SC982								
2N1021	200302			-	-		2SB520		1
2N1021A							2SB520		1
2N1021A							2SB520		1
2N1022A							2SB520		-
2N1022A	2SA490	2SA616					230320		-
2N1039	2SA490	2SA616							
2N1033	2SA489	2SA616			 			-	
2N1041	2SA489	EGAGIO					3		
2N1041	2SA403 2SA490	2SA616							
2N1042	2SA490 2SA490	2SA616							
2N1043	2SA489	2SA616			_				1
2N1044 2N1045	2SA489	20A010							
2N1045 2N1046	23A403	2SA650							
2N1046 2N1047		2SC1185					2SC808		125
2N1047 2N1047A		2SC1185					2SC808		-
2N1047A 2N1047B	· ·	2SC1185					2SC808		-
2N1047B	_	2SC1185				_	2SC808		
2N1048 2N1048A		2SC1185					2SC808		
		2SC 1185				_	2SC808		
2N1048B 2N1049	-	2SC 1185 2SC 1185					2SC808		1
2N1049 2N1049A		2SC 1185					2SC808		_
2N1049A 2N1049B		2SC 1185					2SC808		
									-
2N1050		2SC 185					2SC808		- 4
2N1050A		2SC1185 2SC1185					2SC808		7
2N1050B	204505		20 4 527		200510		2SC808		-
2N1131	2SA505	2SA606	2SA537		2SA546				
2N1132	2SA505	2SA606	2SA537		2SA546		2SC632		Link
2N1149	2SC372								
2N1150	2SC372						2SC632		100
2N1151	2SC372					-	2SC632		100
2N1152	2SC372	· · · · · ·					2SC632	HE THE RESERVE	
2N1153	2SC372						2SC632	Mary Hot	
2N1154	2SC594						2SC470		1
2N1155	2SC594						2SC 470		
2N1156	2SC 594	_				2	2SC470		
2N1420	2SC495		2SC1212		2SC456	2.6900	River and Market		

		AL	Ł		NIMUN	A R	ATINGS	i				*	ELL	ECTRICAL	L CHAR	ACTER	STICS	1.		7		OUTLINE	
TYPE	USE	MATERIAL	POLALI	Pc 25°C	Tj (°C)	Vos (V)	VCEO (V)	Ic (mA)	Ια9 (μΑ)	Vos(V)	min.	hre max.	Ic(mA)	hfe	hie (Ω)	hre (×I0)	hoe (ω ζζ)	*fae **fab	NF (dB)	Cob (pF)	Coxrbb (ps)	то.	NOTE
NUCO7	LIC			(m₩)			117		(µA)	30	100	300	150		(,	-		(MHz)		- 15	543	5	
N1507	HF	S	N	600	175	60	20	IA	1 20 A			_				<u>`</u>		0.2				3	-
N1529	AP	G	Р	106W	001	40	30	5A	20mA	40	20	40	3A					0.2		-	-	3	
N1530	AP	G	Р	106W	100	60	45	5A	20mA	60	20	40	3A								-	3	
N1531	AP	G	Р	106W	100	80	60	5A	20mA	80	20	40	3A					0.2					
N1532	AP	G	Р	106W	100	100	75	5A	20mA	100	20	40	3A			_		0.2				3	_
N1533	AP	G	Р	106W	100	120	90	5A	20mA	120	20	40	3A			_		0.2				3	
N1534	AP	G	Р	106W	100	40	30	5A	20mA	40	35	70	3A					0.2			-	3	
N1535	AP	G	Р	106W	100	60	45	5A	20mA	60	35	70	3A					0.2				3	_
N1536	AP	G	Р	106W	100	80	60	5A	20mA	80	35	70	3A					0.2				3	
N1537	AP	G	Р	106W	100	100	75	5A	20mA	100	35	70	3A					0.2				3	
N1538	AP	G	Р	106W	100	120	95	5A	20mA	120	35	70	3A					0.2				3	
N1539	AP	G	Р	106W	100	40	30	5A	20mA	40	50	100	3A					0.2				3	
N1540	AP	G	Р	106W	100	60	45	5A	20mA	60	50	100	3A			Ţ		0.2				3	
N1541	AP	G	Р	106W	100	80	60	5A	20mA	80	50	100	3A			1		0.2				3	
N1542	ΑP	G	Р	106W	100	100	75	5A	20mA	100	50	100	3A					0.2				3	
N1543	ΑP	G	Р	106W	100	120	95	5A	20mA	120	50		3A					0.2		9	i	3	
N1544	AP	G	P	106W	100	40	30	5A	20mA	40	75	-	3A					0.2	-		1	3	
N1545	AP	G	P	106W	100	60	45	5A	20mA	60	75	_	3A					0.2			1	3	
2N1546	AP	G	P	106W	100	80	30	5A	20mA	80	75	_	3A	_				0.2			+	3	
2N1547	AP	G	P	106W	100	100	75	5A	20mA	100	75	1	3A	-				0.2			+	3	
			-	_	100	120	95	5A	20mA	120	75		3A					0.2	-	0 500	+-	3	
2N1548	AP	G	Р	106W	100				1	40	-	200	5 5			-	0	0.2	-	10	+	39	
2N1566	AP	S	N	600		80	60	50		-	-	-		0.5		-	-		-	35	+	5	-
2N1613	SW	S	N	800	200	75		ļ.,	0.01	60	20	-	0.1	35		-	-		-	_	+	5	
2N1711	Α	S		800	200	75		IA	0.01	60	35	1	0.1	70	_	-	-		-	25	+		
2N1714	ΑP	S	N	800	175	90	60	750	1	3	20	1	200			-		50		50	-	5	1
2N1715	AP	S	N	800	175	150	100	750	1	3	20	100	200					50		50		5	
N1716	AP	S	N	800	175	90	60	750	1	3	40	120	200					50		50		5	The figure
2N1717	ΑP	S	N	800	175	150	100	750	1	3	40	120	200					50		50		5	
2N1718	ΑP	S	N	2W	175	90	60	750	1	3	20	60	200					50		50			
2N1719	ΑP	S	N	2W	175	150	001	750	I	3	20	60	200					50		50			
2N1720	ΑP	S	N	2W	175	90	60	750	1	3	40	120	200			T		50		50			
2N1721	AΡ	S	N	2W	175	150	100	750	1	3	40	120	200					50		50			
2N1722	ΑP	S	N	50W	175	80		5A			20	90	2A								F	53	-
2N1722A	ΑP	S	N	50W	175	180	120	5A	0.1	3	30	90	2A									53	
2N1723	ΑP	S	N	50W	175	120	80	5A	0.1	3	50	150	2A									53	
2N1724	AP	S	N	50W	175	80		5A	-0.0	1	20	_	2A								T	61	
2N1724A	AP	s	N	50W	175	180	120	5A	0.1	3	30	1	2A									61	
2N1725	AP	S	N	50W	175	120	80		0.1	3	1	-	2A		-	-				1	+	61	
2N1889	SW	S	N	800	173	100	- 00	30	0.01	75	40	-	150	45			1	**120		15	+	39	
2N1890	SW	S	N	800		100	-	-	0.01	75		+-	150	70		1	+	**120	+	15	+	39	
	_	_	N	800	-	120		500	0.01	90	40	-	150	45		-	+	** 120	+-	15	+	39	
2N1893	SW	S	_		100	_	40		_	75	-	-	10A	45	-	+	+	1 7 120	-	13	+-	3	
2N1907	AP	G	P	60W	100	100	40	20A	2mA	100.00	30		1		-	+	+		+	+	+	3	
2N1908	AP	G	P	60W	100	130	50	20A	2mA	100	30	-	10A	-	-	+-	-	-	-		+-		
2N1936	AP	S	N	150W	175	125	60	20A		-	10	-	10A	-		-	-	-		-	+	63	
2N1937	AP	S	N	150W	175	125	80	20A			10	-	10A		_		-	-	-	1	+	63	
N1973	Α	S	N	800		100			25n	75	35	_	0.1	80	_	_	_	**120		15	1	39	
N1974	Α	S	Ň	800		100	- 12		25n	75	20	-	0.1	40				**120	1	15	1	39	
N1975	A	S	N	800		100	Į.		25n	75	10	-	0.1	20				**120	1	15		39	1 11
2N2060	Α	S	N	500	200	100		500	2n	80	40	120	1	1									
2N2102	AP	S	N	IW		120	65	IA	2n	60	40	120	150									39	
2N2102A	ΑP	S	N	1W	T-	120	65	IA	2n	60	40	120	150									39	
2N2150	AP	S	N	30W	175	125	80	6A			20	60	500							160		311	
2N2151	AP	S	N	30W	175	125	80	6A			40		500							160		111	
2N2 92	SW	S	N	800	1	60	40	IA	10n	30	100	_	150	-	\vdash	t				20		39	
2N2192A	SW	-	N	800		60	40	IA	10n	30	-	-	_			+				20		39	-

TYPE	TOSHIBA	NEC	HITACHI	MITSUBICHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1507	2SC486			2SC816	2SC775				-
2N1529	2SA680						2SB519	•	
2N1530	2SA680						2SB519		
2N1531	2SA680						2SB519		
2N1532	2SA 679						2SB519		
2N1533	2SA 679						2SB520		
2N1534	2SA680						2SB519		
2N1535	2SA680						2SB519	*	
2N1536	2SA680						2SB519		
2N1537	2SA679						2SB519		1
2N1538	2SA 679						2SB5 20		
2N1539	2SA680						2SB519		
2N1540	2SA680						2SB519		
2N1541	2SA680						2SB519		
2N1542	2SA679						2SB519		
2N1543	2SA679						2SB520		
2N I 544	2SA680						2SB519		
2N1545	2SA680						2SB519		
2N1546	2SA680						2SB519		
2N1547	2SA679						2SB519		1
2N1548	2SA679						2SB5 20		
2N1566	2SC199				2SC456	2SC1247A			1
2N1613	2SC485	2SC781			2SC696				
2N1711	2SC485	2SC781			2SC696			_	
2N1714	2SC512	2SC959			2SC696				
2N1715	2SC510	2SC959			2SC696A	-			
2N1716	2SC512	2SC959			2SC696		3		1
2N1717	2SC510	2SC959			2SC696A			_	
2N1718	2SC522				2SC697A	1	2SC756		
2N1719	2SC522				2SC697A		2SC756		1
2N1720	2SC522	-			2SC697A		2SC756		- 5
2N1721	2SC522				2SG697A		2SC756		
2N1722	2SC520A	2SC940	2SC1030						
2N1722A	2SC518A	2SC940	2SC897						
2N1723	2SC519A	2SC940	2SC897						
2N1724	2SC520A	2SC940	2SC1030						
2N1724A	2SC518A	2SC940	2SC897						
2N1725	2S€519A	2SC940	2SC897						
2N1889	2SC1382		2SC1212A				2SCI124		7
2N1890	2SC1382		2SC1212A				2SCI124		1 5
2N1893	2SC1382		2SC1212A				2501124		
2N1907	200,002		2001212	2SB480		2SB354			
2N1908						202001			
2N1936	2SD113					2SD250			
2N1937	2SD113	 	 			2SD250			
2N1973	2SC497	2SC959	 		2SC696	200200			
2N1974	2SC497	2SC959			2SC696				
2N1975	2SC497	2SC959			2SC696	+			
2N2060	200437	200303			200000	-			-
2N2102	2SC510	2SC960 '			2SC696A		2SC756	2SC614	
2N2102 2N2102A	2SC510	2SC960 2SC960	 		2SC696A		2SC756	2SC614 2SC614	
2N2150	2SC519A	2SC939	2SC898		2SC901		200100	200014	
2N2151	2SC519A 2SC519A	2SC939	2SC898		2SC901		_		
2N2151 2N2192			230898		230301			200614	
	2SC485	250960	 		-			250614	-
2N2192A	2SC485	2SC960						2SC614	

La Taranta		뒿			XIMUI	A R	ATINGS				_		EL	ECTRICA	L CHAR	ACTER	STICS		TUS!	- 10		OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	(*C)	Vos (V)	VCEO (V)	Ic (mA)	los			hre	1-/-0>	hfe	hie (Ω)	hre (×10)	(ως)	*fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
		_	_	(mW)					(μ A)	Vos(V)	min.	_	Ic(mA)		(36)	(///	(,,,,,	(MHz)	(00)		1,007	A	
A5T2192	SW	S	N	625	150	60	40	IA	10n	30	100	300	150			_				20		39	
N2193	SW	S	N	800	L	80	50	IA	10n	60	40	120	150					7-1-1	-	20			
2N2193A	SW	S	N	800		80	50	IA	10n	60	40	120	150			L				20	10	39	
A5T2193	SW	S	N	625	150	80	50	IA	10n	60	40	120	150							20		1/17	132
N2194	S.W	S	N	800		60	40	IA	10n	30	20	60	150		1					20		39	
2N2194A	SW	S	N	800		60	40	IA	10n	30	20	60	150							20		39	35
2N2217	SW	S	N	800	175	60	30	800	10n	50	20	60	150					250		8		5	
N2218	SW	S	N	800	175	60	30	800	10n	50	40	120	150					250		-8		5	
2N2218A	SW	S	N	800	175	75	40	800	10n	60	40	120	150					250		8		5	
D2T2218	SW	S	N	400	175	60	30	800	10n	50	40	120	150					250		8		1/20	
D2T2218A	SW	S	N	400	175	75	40	800	10n	60	40	120	150					250		8		1/57	
N2219	SW	s	N	800	175	60	30	800	10n	50	100	300	150					250		8		5	
N2219A	SW	s	N	800	175	75	40	800	10n	60	100	300	150					300		8		5	
D2T2219	SW	s	N	400	175	60	30	800	I0n	50	100	300	150					250		8		1/67	
D2T2219A	SW	s	N	400	175	75	40	800	10n	60	100	300	150					300		8		1/67	
N2220	SW	S	N	500	175	60	30	800	10n	50	20	60	150			\vdash	_	250		8		18	
N2221	SW	S	N	500	175	60	30	800	10n	50	40	120	150					250	<u> </u>	. 8		18	
N2221A	SW	S	N	500	175	75	40	800	10n	60	40	120	150			-		250		8	+	18	
N2221A	SW	S	N	500	175	60	30	800	10n	50	100	300	150			1		250		8	\vdash	18	
N2222A	SW	S	N	500	175	75	40	800	10n	60	100	300	150			\vdash		300		8	+	18	
	SW	_	_	500	150	_	30	800	10n	50	100	300	150					250		8	+	116	
D2T2222		S	N			60			_	_		_				-	-			8	-	1/10	
A5T2222	SW	S	N	625	150	60	30	800	10n	50	100	300	150					250		15	_		
N2223	SW	S	N	500	200	100		500	10n	80	25	100	0.1			-					-	¥05	
N2223A	SW	S	N	500	200	100		500	10n	80	25-	100	0.1			-			<u> </u>	15	-	705	
N2243	SW	S	N	800	200	120	80	IA	1 0 n	60	40	120	150			<u> </u>		L		15	-	39	
N2243A	SW	S	N	800	200	120	80	IA	10n	60	40	120	150			<u> </u>		50		15	٠.	39	
A5T2243	SW	S	N	625	150	120	80	IA	1 0 n	60	40	120	150					50		15		1/27	
N2270	AP	S	N	IW		60	45	IA	50 n	60	50	200	150									39	
N2303	Α	S	Р	600		50		500	1	30	75	200	150	75		-				45	_	5	
2N2387	Α	S	N	300	175	45	45	30	1 0 n	45	40	120	0.01	60					4	8	<u> </u>	50	
2N2388	Α	S	N	300	175	45	45	30	10n	45	100	300	0.01	150					3	8		50	
2N2389	SW	S	N	450	200	75		500	10n	60	40	120	150	35					12	25		50	
N2390	SW	S	N	450	200	75		500	I 0 n	60	100	300	150	70					8	25		50	
N2393	SW	S	Р	450	175	50	35	300	T	30	20	45	150	20						45		50	18-
N2394	SW	s	P	450	175	50	35	300	1	30	30	90	150	30						45		50	LIVE
N2395	sw	s	N	450	200	60	40	300	10n	30	20	60	150									50	11 1
N2396	sw	s	N	450	200	60	40	300	1 0 n	30	40	120	150									50	100
2N2432	SC	S	N	300		30	30	100	1 0 n	25	30		0.01									18	
N2432A	SC	s	N	300		45	45	100	I 0 n	40	30		0.01									18	100
N2453	A	s	N	200	200	60	30	50	5n	50	150	600	1	150	5K	6	30			8		1/105	
N2483	A	s	N	360	1	60	60	50	10n	45	40	120	0.01	80	13K	8	30		4	6		18	7 100
N2484	A	s	N	360	\vdash	60	60	50	10n	45	100	500	0.01	150	24K	8	40	 	3	6	—	18	3 4
2N2537	AP	S	N	800		60	30	800	250n	40	50	150	150	- 30	-711	۲	, ·		Ť	8	1	5	
N2537	AP	S	N	800	-	60	30	800	250n	40	100	300	150				 -	_	-	8	+	5	-
N2538	AP	S	N	500	-	60	30	800	250n	40	50	150	150				-			8	1	18	100
	_	-	_		+	_	30	800	250n	_	100	300	150	-			-		-	8	+	18	
N2540	AP	S	N	500	100	60		_		40	_	_							_	100	-	10	
N2552	AP	G	Р	20W	100	40	40	3A	125	20	20	60	1A	—				-		_	+	\vdash	
N2553	AP	G	Р	20W	100	60	60	3A	125	30	20	60	IA					-		100	+	\vdash	
N2554	AP	G	Р	20W	100	80	80	3A	125	40	20	60	IA			<u> </u>		<u> </u>		100	-		
N2555	AP	G	P	20W	100	100	100	3A	125	50	20	60	IA				<u> </u>	\perp		100	-	\vdash	
N2556	AP	G	Р	20W	100	40	40	3A	125	20	20	60	IA					\vdash		100			
2N2557	AP	G	Р	20W	100	60	60	3A	125	30	20	60	IA							100	_	L	
N2558	AP	G	Р	20W	100	80	80	3A	125	40	20	60	ŀΑ							100			
2N2559	AP	G	Р	20W	100	100	100	3A	125	50	20	60	łΑ			L				100			
N2560	AP	G	P	20W	100	40	40	3.5A	125	20	20	60	3A							100			-

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T2192	2SC485	2SC960	2SC708A	<u> </u>	2SC696	7			15.00
2N2193	2SC485	2SC960	2SC708A		2SC696		·	-	777
2N2193A	2SC485	2SC960	2SC708A		2SC696			_	1
A5T2193	2SC485	2SC960	2SC708A		2SC696				- 150
2N2194	2SC485	2SC960	2SC708A		2SC696				7 7 10 1
2N2194A	2SC485	2SC960	2SC708A		2SC696				15.87
2N2217	2SC485	2SC960	2SC708A		2SC696				1 1 2 2 2
2N2218	2SC485	2SC960	2SC708A	_	2SC696				100
2N2218A	2SC485	2SC960	2SC708A		2SC696				1
D2T2218	2SC498								10 - E
D2T2218A	2SC498						_		777
2N2219	2SC495	2SC960			2SC696				
2N2219A	2SC495	2SC960			2SC696				
D2T2P19	2SC498								- 1777
D2T2219A	2SC498							`	100
2N2220	2SC503	2SC959		2SC307					11 12
2N2221	2SC503	2SC959		2SC307					3 1
2N2221A	2SC503	2SC959		2SC307		1.			121.57
2N2222	2SC503	2SC959		2SC307					
2N2222A	2SC503	2SC959	2	2SC307	9				
Q2T2222	2SC503	2SC959	T ,	2SC307	i.				
A5T2222	2SC503	2SC959		2SC307	The same				
2N2223				U I I I I I		SE MANUFACTUR			5 15 10
2N2223A					1.17		1 3 3 T		
2N2243	2SC510				2SC696A				72-
2N2243A	2SC510				2SC696A	8	,		77.1
A5T2243	2SČ510				2SC696A				
2N2270	2SC512			_	2SC696				10.4
2N2303A	2SA498	2SA606				2SA580			301
2N2387		2SC839			2SC644	200			
2N2388	,	2SC839			2SC644				1
2N2389	2SC497	2SC959							
2N2390	2SC497	280959							10.5
2N2393 -				2SA697	2SA546				1,112,
2N2394				2SA697	2SA546				11.50
2N2395	2SC501	2SD227	2SC708		2SC456	2SC1247A	_		17.10
2N2396	2SC501	2SD227	2SC708		2SC456	2SC1247A			7.50
2N2432	2SC1380A		2SC1345			3.7			
2N2432A	2SC1380A		2SC1345						
2N2453	2SC376			·					1.57
2N2483	2SC788						2SC470		
2N2484	2SC 788						2SC470		
2N2537	2SC486				2SC456				
2N2538	2SC486				2SC456				39%
2N2539	2SC486	1.			2SC456				1 12
2N2540	2SC486				2SC456				
2N2552	2SA490	2SA616						2SB507	1.71
2N2553	2SA490	2SA616						2SB507	5.5
2N2554	2SA489	,			-	-			
2N2555	2SA489								
2N2556	2SA490	2SA616						2SB507	
2N2557	2SA490	2SA616						2SB507	11111111
2N2558	2SA489								
2N2559	2SA489								
2N2560	2SA490	2SA616						2SB507	

				М	AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTER	ISTICS	-	-	70			July
TYPE	USE	ERIA	POLALITY	Pc	Tj	Vos	VCEO	Ic	l ca	ю		ħFE		hfe	hie	hre	hoe	fr *fae	NF	Cob	Cexrbb	OUTLINE	NOTE
	002	MATERI	20	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	mir.	max	ic(mA)	IIIE	(Q)	(×10)	(µ8)	**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N2561	AP	G	P	20W	100	60	60	3.5A	125	30	20	60	3A					(mnz)		100	-	TOWN	17
2N2562	AP	G	P	20W	100	80	80	3.5A	125	40	20	60	3A			-	-			100	1		-
2N2563	AP	G	P	20W	100	100	100	3.5A	125	50	20	60	3A		-	H				100	-	1	WILLIAM ST
2N2564	AP	G	P	20W	100	40	40	3.5A	125	20	20	60	3A			-			-	100		5	
2N2565	AP	G	P	20W	100	60	60	3.5A	125	30	20	60	3A			-				100	1	5	
2N2566	AP	G	P	20W	100	80	80	3.5A	125	40	20	60	3A							100		5	
2N2567	AP	G	P	20W	100	100	100	3.5A	125	50	20	60	3A							100		5	
2N2586	Α	S	N	300	175	60	45	30	2n	45	120	360	10			+-			3		 	18	DALINGTON
2N2604	A	S	Р	400	175	60	45	30	10n	45	40	120	10	60		\vdash			4	6		46	16.
A5T2604	Α	s	P	625	150	60	45	30	10n	45	40	120	10	60					4	6	+	0,0,1	1679
2N2605	Α	S	P	400	175	60	45	30	10n	45	100	300	10	150					3	6	\top	46	
A5T2605	A	S	P	625	170	60	45	30	10n	45	100	300	10	150		 			3	6	 		
2N2639	Α	S	N	300		45	45	30	10n	45	50	300	10	65	_				4	8	+	1/05	
2N2640	Α	S	N	300		45	45	30	10n	45	50	300	10	65		-			4	8		1/105	
2N2641	Α	S	N	300	-	45	45	30	10n	45	50	300	10 -	65				 	4	8	†	1/105	
2N2642	A	S	N	300		45	45	30	10n	45	100	300	10	130					4	8		1/105	
2N2643	A	S	N	300		45	45	30	10n	45	100	300	10	130				-	4	8		1/105	
2N2644	Α	S	N	300		45	45	30	10n	45	100	300	10	130					4	8		1/105	
2N2659	AP	G	P	15W	100	50	50	3A	125	25	30	90	500							100	†	5	_
2N2660	AP	G	P	15W	100	70	70	3A	125	35	30	90	500			1				100	T	5	
2N2661	AP	Ğ	P	15W	100	90	90	3A	125	45	30	90	500							100		5	
2N2662	AP	G	P	15W	100	50	50	3A	125	25	30	90	500							100			
2N2663	AP	G	P	15W	100	70	70	3A	125	35	30	90	500							100			
2N2664	AP	G	P	15W	100	90	90	3A	125	45	30	90	_			\vdash				100			
2N2665	AP	G	P	15W	100	50	50	3A	125	25	50	150	500			+				100		5	
2N2666	ΑP	G	Р	15W	100	70	70	3A	125	35	50	150	500							100		. 5	
2N2667	AP	G	P	15W	100	90	90	3A	125	45	50	150	500			\vdash	_			100		5	
2N2668	AP	G	P	15W	100	50	50	3A	125	25	50	150	500			1				100	\top		
2N2669	AP	G	P	15W	100	70	70	3A	125	35	50	150	500							100	_		
2N2670	AP	G	P	15W	100	90	90	3A	125	45	50	150	500							100	T		
2N2802	Α	S	P	250		25	20	30	I0n	25	20	120	100									1/05	
2N2803	Α	s	P	250		25	20	30	10n	25	20	120	100									1/05	
2N2804	Α	S	Р	250		25	20	30	10n	25	20	120	100			†						1/05	
2N2805	A	s	Р	250		25	20	30	10n	25	40	120	100						à.			1/105	
2N2806	Α	S	Р	250		25	20	30	I0n	25	40	120	100				127				T	1/105	
2N2807	À	S	Ρ	250		25	20	30	10n	25	40	120	100		4-							1/05	11
2N2880	AP	S	N	30W	200	100	80	5A	0.1	60	40	120	IA									HI	
2N2894	SW	S	Р	360	200	*12	12	200		6	40	150	30					400				18	
2N2904	SW	Ş	Ρ	600	200	*60	40	600	20 n	50	40	120	150									5	
D2T2904	SW	S	Ρ	400	200	60	40	600	20n	50	40	120	150									1/105	
2N2904A	SW	S	Ρ	600	200	60	60	600	I0n	50	40	120	150									5	
D2T2904A	SW	S	P.	400	200	60	60	600	I0n	50	40	120	150									1/05	
2N2905	SW	S	Ρ	600	200	60	40	600	20 n	50	100	300	150									5	
D2T2905	SW	S	P	400	200	60	40	600	20n	50	100	300	150									1/105	
O2T2905	SW	S	Ρ	500	150	60	40	600	20 n	50	100	300	150							_		1∕105	
2N2905A	SW	S	Ρ	600	200	60	60	600	1 0 n	50	100	300	150									5	
2N2906	SW	S	Ρ	400	200	60	40	600	20 n	50	40	120	150									18	
2N2906A	SW	S	Ρ	400	200	60	60	600	I 0 n	50	40	120	150									18	
2N2907	SW	S	Р	400	200	60	40	600	20 n	50	100	300	150									18	
A5T2907	SW	S	Ρ	625	ł-50	60	40	600	20 n	50	100	300	150									1/17	
2N2907A	SW	S	Ρ	400	200	60	40	600	I 0 n	50	100	300	150									18	
2N2913	Aκ	S	N	300	200	45	45	30	I 0 n	45	60	240	10									⅓os	
2N2914	Α	S	N	300	200	45	45	30	I 0 n	45	150	600	10									1/105	
2N2915	Α	S	N	300	200	45	45	30	10n	45	60	240	10									1∕105	
2N2915A	Α	S	N	300	200	45	45	30	10n	45	60	240	10									1/05	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2561	2SA489	2SA616			2SB513			2SB509	
2N2562	2SB231	2SA616							- 3
2N2563	2SB231							- 5	
2N2564	2SA490	2SA616	2SA670		2SB513			2SB509	
2N2565	2SA489	2SA616			2SB513			2SB509	
2N2566	2SA489	2SA616			200011				
2N2567	LOATOS	EGAUTO		1					
2N2586	2SC 979	2SC899	2SC1345	2SC1313					
2N2604	2SC497	230033	2301343	2301313		2SA523		-	
						2SA523			
A5T2604	2SC 497		-	· ·		LOAJES			+
2N2605	2SC 497								
A5T2605	2SC 497	004570					20,4070		-
2N2639	2SA502	2SA579	_				2SA678		 -
2N2640	2SA502	2SA579	_				2SA678	+	
2N2641	2SA502	2SA579		1			2SA678	+	-
2N2642	2SA502	2SA579					2SA678	-	_
2N2643	2SA502	2SA579					2SA678		7 (20)(2)
2N2644	2SA502	2SA579					2SA678		
2N2659	2SB434		2SB107A		2SB449			2SB216	
2N2660	2SB503				2SB513			2SB215	
2N2661	2SB502								
2N2662	2SB503	2SA616							
2N2663	2SB503	2SA616							
2N2664	2SB502			•					
2N2665	2SB503	2SA616							
2N2666	2SB502	2SA616		,					
2N2667	2SB502								
2N2668	2SB434	2SA616			2SB449		1		
2N2669	2SB502	2SA616							
2N2670	2SB503								
2N2802	2SA502	2SA578							
2N2803	2SA502	2SA578							
2N2804	2SA502	2SA578							
2N2805	2SA502	2SA578							-
2N2806	2SA502 2SA502	2SA578	-	-					37.2
		2SA578			-			+ -	1-5
2N2807	2SA502	25A376			2SC697				
2N2880	2SC519		201527		2SA546			-	
2N2894	2SA594		2SA537					_	
2N2904	2SA516	2SA571	2SA537		2SA546				
D2T2904	2SA516				2SA546				
2N2904A	2SA516	2SA571	2SA537		2SA546				
D2T2904A	2SA516			-	2SA546			+	1
2N2905	2SA516	2SA571	2SA537		2SA546		-	+	
D2T2905					2SA546			1	-
Q2T2905					2SA546			-	<u> </u>
2N2905A		2SA571	2SA537		2SA546				
2N2906		2SA571	2SA537		2SA546		ļ		1
2N2906A		2SA571	2SA537		2SA546				
2N2907		2SA571	2SA537	6	-				
A5T2907		2SA571	2SA537						
2N2907A		2SA571	2SA537						
2N2913	2SC383		2SC984	2SC773					1
2N2914	2SC 383		2SC984	2SC773					
2N2915	2SC383		2SC984	2SC773					
2N2915A	2SC 383		2SC984	2SC773					

		_	_	M.	UMIXA	M R	ATING	S					El	ECTRICA	L CHAR	ACTER	ISTICS				M	4	
TYPE	USE	MATERIAL	POLALITY	Pc	Ti	Vœ	VCEO	Ic	łœ	90		hre		hfe	hie	hre	hoe	fr *foe	NF	Cob	Coxrbb	OUTLINE	NOTE
		MAT	뒽	25°C (mW)	(°C)	(v)	(V)	(mA)	(µA)	Vas(V)	min.	тах.	Ic(mA)		(Q)	(×10)	(µg)	**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N2916	A	S	N	300	200	. 45	45	30	10n	45	150	600	10m					(11112)		_		1/105	-1563
2N2916A	Α	S	N	300		45	45	30	10n	45	150	600	10m				l					Yos	
2N2917	A	S	N	300	†	45	45	30	10n	45	60	240	10m			_						1/05	
2N2918	A	s	N	300		45	45	30	10n	45	150	600	10m									1/05	E 100
2N2919	Α	s	N	300		60	60	30	2n	45	60	240	10m								178	1/05	
2N2919A	Α	S	N	300		60	60	30	2n	45	60	240	10m									Yos	
2N2920	Α	s	N	300		60	60	30	2n	45	150	600	10 m	- 1		_						1/05	
2N2920A	A	s	N	300		60	60	30	2n	45	150	600	10m		14	_				-		1/05	
2N2944	A	S	Р	400		15	10	100	0. In		80		I			-						46	
2N2944A	Α	s	Р	400		15	10	100	0. In	1	100		ı			1						46	
2N2945	Α	s	Р	400		25	20	100	0.2n		40		1									46	
2N2945A	Α	s	P	400		25	20	100	0.2n		70		ī	_					- 10			46	
2N2946	Α	S	Р	400		40	35	100	0.5n		30		1 .							-	†	46	
2N2946A	Α	s	Р	400		40	35	100	0.5n		50		1						-		1	46	
2N2972	Α	s	N	250		45	45	30	10n	45	60	240	10m				g .				1	71	
2N2973	Α	s	N	250		45	45	30	10n	45	150	600	10m					. 57			1	71	
2N2974	Α	s	N	250		45	45	30	10n	45	60	240	10m									71	
2N2975	Α	s	N	250		45	45	30	1 0 n	45	150	600	10m								1	71 /	
2N2976	Α	S	N	250		45	45	30	10n	45	60	240	10m									71	
2N2977	A	s	N	250		45	45	30	10n	45	150	600	10 m									71	
2N2978	A	s	N	250		60	60	30	2n	45	60	240	10m									71	
2N2979	A	S	N	250		60	60	30	2n	45	150	600	10m			-					_	71	
2N2987	AP	S	N	15W	200	95	80	IA			25	75	200						_	-	_	5	
2N2988	AP	S	N	15W	200	155	100	1A			25	75	200					_		-	+	5	
2N2989	AP	S	N	15W	200	95	80	IA			60	120	200		-							5	
2N2990	AP	S	N	15W	200	155	100	IA			60	120	200								- 8	5	
2N2991	AP	S	N	15W	200	95	80	IA			25	75	200		-				_	_			
2N2992	AP	S	N	15W	200	155	100	IA			25	75	200			-			-	_			
2N2993	AP	S	N	15W	200	95	80	IA			60	120	200		-	-		-	-	_		75 A	
2N2994	AP	S	N	15W	200	155	100	IA			60	120	200			-			-				4
2N3012	SW	S	Р	360	200	12	12	200			30	120	30					400	-	-		18	-
2N3015	SW	S	N	800	200	60	30		200	30 TA125	30	120	150				_	100			0	5	3 - 3
2N3021	AP	S	P	25W	175	30	30	3A	-	TA125	20	60	IA		7 7					100		3	1 6
2N3022	AP	S	P	25W	175	45	45	3A		-	20	60	IA	-				-	-	-		3	
2N3023	AP	S	P	25W	175	60	60	3A			20	60	IA	-		-	-		-		-	3	
2N3024	AP	S	P	25W	175	30	30	3A	-	-	20	60	IA						-		-	3	
2N3025	AP	S	P	25W	175	45	45	3A		in the	20	60	IA		-	-	-					3	-
2N3026	AP	S	P	25W	175	60	60	3A			20	60	IA	-	-				10.	-	1	3	1
2N3036	SW	S	N	800		120	80	1200	IOn	60	50	150	150	40	120		120			15		39	notifice to
2N3037	SW	S	N	360		120	70	500	10n	60	40	120	150	30	90		100			15	 	4/79	
2N3038	SW	S	N	360		100	60	500	10n	60	80	240	150	60	180		200			15	 	179	
2N3039	SW	S	P	360		50	35	500	25n	30	20	80	150	20	60		250			40	+	179	-
2N3040	SW	S	P	360		40	30	500	25n	30	40	160	150	40	120		500			40		179	-
2N3043	Α	S	N	250		45	45	30	10n	45	100	300	10m		,23		200				 	89	The same
2N3044	Ā	S	N	250		45	45	30	10n	45	100	300	10m			1		_			_	89	
2N3045	Ā	s	N	250	-	45	45	30	10n	45	100	300	10m		-					,	1	89	
2N3046	A	s	N	250		45	45	30	10n	45	50	200	10m			-					1	89	
2N3047	A.	S	N	250	-	45	45	30	10n	45	50	200	10m								1	89	
2N3048	A	S	N	250		45	45	30	10n	45	50	200	10m						_		1	89	
2N3049	A	S	P	250		25	20	100	10n	25	30	120	1								 	89	
N3050	A	S	P	250	-	25	20	100	10n	25	30	120	1					-	-	-	-	89	
2N3051	A	S	Р	250		25	20	100	10n	25	30	120	<u> </u>				-			-	-	89	
2N3052	A	S	N	250		35	15	200	25n	20	25	120	10								1	89	
2N3053	A	S	N	IW	\vdash	60	40	700	2011		50	250	150					100		-	 	39	
2N3055	AP	S	N	115W		100	70	15A		\vdash	20	70	4A	15	-	\vdash		100		_	_	3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2916		2SC1330			2SC1360				
2N2916 A		2SC1330			2SC1360			-	
2N2917		2SC1330			2SCI360				
2N2918		2SC1330			2SC1360				
2N2919	2SC979			2SC714	**	2SC205			
2N2919 A	2SC979			2SC714		2SC205			
2N2920	2SC979			2SC714		2SC205			
2N2920 A	2SC979			2SC714		2SC205			
2N2944		2SA643							
2N2944 A		2SA643	2SA741						
2N2945		2SA643	2SA741					-	-
2N2945 A		2SA643	2SA741						-
2N2946		2SA643	2SA741						
2N2946 A		2SA643	2SA741			200-2-			
2N2972	2SC979		2SA741	250714		2SC205		-	
2N2973	2SC979			2SC714		2SC205			-
2N2974	2SC979		-	250714		2SC205			-
2N2975	2SC979			2SC714 2SC714	-	250205		-	-
2N2976	2SC979			_		2SC205			
2N2977	2SC979	'		2SC714 2SC714	-	2SC205		+	
2N2978	2SC979					2SC205			
2N2979	2SC979			2SC714		2SC205			
2N2987	2SC488								
2N2988	2SC488								
2N2989	2SC488				_				
2N2990	2SC488								
2N2991 2N2992	250488								
2N2992 2N2993	2SC488 2SC488								
2N2994	2SC488			•					
2N3012	230400		2SA537		2SA546				
2N3012	2SC503	2SC959	204001		20/340				
2N3021	2SA490	2SA616						2SB509	
2N3021	2SA490	2SA616			_			258509	
2N3022	2SA489	2SA616		-				2SB509	
2N3024	2SA490	2SA616						2SB509	
2N3025	2SA490	2SA616						2SB509	
2N3026	2SA489	2SA616						2SB509	
2N3036	2SC484								
2N3037	2SC1382	_							
2N3038	2SC1382								
2N3039		2SA606	2SA537		2SA546	2SA580			
2N3040		2SA606	2SA537		2SA546	2SA580			
2N3043	2SC979					2SC205			
2N3044	2SC979			2SC714		2SC205		<u></u>	
2N3045	2SC979			2SC714		2SC205			
2N3046	2SC979			2SC714		2SC205			
2N3047	2SC979			2SC714		2SC205			
2N3048	2SC979			2SC714		2SC205			
2N3049				2SC714					
2N3050		2SA711							ļ
2N3051	a "	2SA711		ļ					100
2N3052	2SC979					2SC205			
2N3053		2SC959		2SC714	2SC456				30
2N3055	2SC1080		2SC1343			_			54711

100	1	_	L	М	AXIMU	M i	RATING	s					E	ECTRICA	AL CHAR	ACTER	ISTICS			-			-
TYPE	USE	MATERIAL	POLALITY	Pc	Tį	Va	VCEO	7	lα	eo	Т	hre		hfe	hie	hre	hoe	fr *fge	NF	Cob	Coxrbb'	OUTLINE	NOTE
		MAT	질	25°C (mW)	(°C)	(v)	(v)	(mA)	(μ A)	Vos(V) min.	max.	ic(mA)	1 """	(Ω)	(×īð)		**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N3114	AH	s	N	800		150	150	200	10n	100	30					+		(MIT2)				39	
2N3117	A	Ś	N	360		60	60	50	10n	45	250	_		400	IOK	8	40		4			18	
2N3146	AP	G	P	150W	100	150	140	15A	10mA	-	30			20				 	 	_	-	3	
2N3147	AP	G	P	150W	100	180	160	I5A	10mA	180	30	90	5A	20								3	
2N3244	A	S	P	ΙW		40	40	IΑ	50 n	30	50	·150	500					175				39	
2N3245	Α	S	P	١W		50	50	IA	50n	50	30	90	500					150				39	
2N3250	SW	S	Р	360	200	50	40	200			50	150	10	50	6K	10	10	250				18	
2N3250A	SW	S	Ρ	360	200	60	60	200			50	150	10	50	6K	10	10	250				18	
2N3251	sw	S	P	360	200	50	40	200			100	_	10	100	12K	10	60	300				18	
2N3251A	SW	S	P	360	200	60	60	200			100	_	10	100	12K	10	60	300				18	
2N3252	SW	S	N	IW	200	60	30	IA	0.5	40	30		500			-		200		<u> </u>		39	
2N3253	SW	S	N	IW	200	75	40	IA	0.5	60	25	75	500			_		175				39	
2N3263 2N3264	PAH	S	N	83W	200	150	90 60	25A	ļ		20	_	15A			_		20	<u> </u>	-	<u> </u>	5/n 5/	
2N3264 2N3265	PAH	S	N	125W	200	150	90	25A			20	80	15A					20		-	-	63	
2N3266	PAH	_	N	125W	200	120	60	25A			20	80	15A					20			-	63	
2N3347	A	S	P	300	200	60	45	30	I0n	45	40	_	10M					-20		<u> </u>		1/105	
2N3348	A	S	P	300		60	45	30	10n	45	40	-	IOM			-						105	
2N3349	A	S	P	300		60	45	30	10n	45	40		IOM			-						Yes	
2N3350	-A	S	Р	300		60	45	30	1 0 n	45	100	300	MOI									1/105	
2N3351	Α	S	Р	300		60	45	30	I On	45	100	300	IOM									1/105	
2N3352	Α	S	Р	300		60	45	30	I On	45	100	300	IOM									1/105	
A5T3391	АН	S	N	625	150	25	25	100	100n	25	250	400	2									4 / ₇	
A7T3391	АН	S	N	625	150	25	25	100	100n	25	250	400	2									1/17	-
A8T3391	АН	S	Ν	625	150	25	25	100	1,00n	25	250		2									1/17	
A5T3391A	АН	S	N	625	150	25	25	100	I,00n	25	250	400	2						5			1/7	
A7T3391A	АН	S	Ν	625	150	25	25	100	100n	25	250	400	2						5			1 / ₇	
A8T3391A	АН	S	N	625	150	25	25	100	n001	25		400	2						5			1/17	
A5T3392	AH	S	N	625	150	25	25	100	100n	25	150		2									1/1	
A7T3392	AH	S	N	625	150	25	25	100	100n	25	150	300	2						\rightarrow			1/2	
A8T3392 2N3418	AH	S	N	625 15W	150	25	25	100	100n	25	150	300	2					40	-			1/1	
2N3419	AP AP	S	N	15W	200	85 125	60 80	3A 3A		_	20	60 60	1					40	\rightarrow		-	5	
2N3420	AP	S	N	15W	200	80	60	3A		-	40	120	'					40				5	
2N3421	AP	S	N	15W	200	125	80	3A		-	40	120	÷			-	-	40				5	
2N3439	AP	S	Z	5W	200	450	350	$\overline{}$	2	360	40	160	20					15			\dashv	5	
2N3440	AP	S	N	5W	200	300	250	$\overline{}$	2	250	40	160	20	-			-	15				. 5	
2N3444	SW	S	N	5W	200	80	50		0.5	60	20	60	500	-		-		150				39	
2N3467	AP	S	Р	IW		40	40	IA	100n	30	40	120	500					175				39	
2N3468	AP	S	Р	IW		50	50	IA	100n	30	25	75	500					150				39	
2N3485	SW	S	Р	400		60	40	600	20 n	50	40	120	150									46	
2N3485A	SW	S	Ρ	400.		60	60		10n	50	40	120	150									46	
2N3486	SW	S	Р	400		60	40		20n	50	10	300	150									46	
2N3486A	SW	S	Ρ	400		60	60	600	I0n	50	10	300	150									46	
2N3494	SW	S	Ρ	600	200	80	80		1.0	50	40		10]	[5	
2N3495	SW	_	Р		200	120	120		0.1	90	40		10									5	
2N3496	SW	S	P		200	80	80	_	0.1	50	40		10									18	
2N3497	SW	S	P P		200	120	120		0.1	90	40		10									18	
A5T3496 A5T3497	SW	S	끍	625 625	150 150	80 120	80		0.1	50	40		10	-		\Box						1/7	
2N3502	SW	$\overline{}$	P	700	200	45	120		0.1	90 30	100	200	10	125	221/	1 F	900		4			1/17	
2N3502 2N3503	ŚW	_	뒤		200	60			10	50	100	300	150 150	135	23K	15 15	800		4			5	
2N3503 2N3504	SW	\rightarrow	P		200	45		600	10	30	100	300	150	135	23K	15	800		4		\dashv	5 18	
2N3505	SW		P		200	60			10	50	100	300	150	135	23K	15	800		4			18	
	SW		뒤	625	150	45			10	30	100	300	150	135	23K	15	800		4		\dashv	4/7	
	٠	-		525	.00	73	7.5	500	. •	70	, 50	500	, 55	100	LUN	, ,	500		7			/17	

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3114		2SC1217							1
2N3117	2SC788					2SC727			
2N3146							2SB520		
2N3147							2SB520		
2N3244							2SA706		
2N3245							2SA706		
2N3250		2SA504			2SA546A	2SA558			
2N3250A		2SA504			2SA546A		13.7		
2N3251		2SA504			2SA546A	2SA558		THE PERSON NAMED IN	
2N3251A	_	2SA504 .			2SA546A				
2N3252	2SC485				2SC696				
2N3253	2SC485				2SC696				1
2N3263	2SC1435					2SC1301			100
2N3264	2SC1435					2SC1301			
2N3265	2SC1435		_			2SC1301			
2N3266	2SC1435		-			2SC1301			
2N3347	2SA502	2SA675					2SA678		
2N3348	2SA502	2SA675					2SA678		
2N3349	2SA502	2SA675					2SA678		
2N3350	2SA502	2SA675					2SA678		7.
2N3351	2SA502	2SA675					2SA678		
2N3352	2SA502	2SA675					2SA678		
A5T3391	LOAJUL	204010		2SC442		2SC202			1.5
A7T3391				2SC442		2SC202			
A8T3391				2SC442		2SC202		_	
A5T3391A				2SC442		2SC202			
A7T3391A	-		_	2SC442		2SC202	,		
A8T3391A				2SC442		2SC202			
A5T3392				2SC442		2SC202			
A7T3392		-		2SC442		2SC202			- 1
A8T3392				2SC442		2SC202			
2N3418			2SC1055						-
2N3418 2N3419			2SC1055		_				
			2SC1055	-			-		
2N3420			2SC1055						
2N3421			2001033	-	2SD198	2SC825	2SC895-3		
2N3439				+	2SD198	2SC825	2SC895-3		-
2N3440		-			200100	200025		2SC614	
2N3444							2SA706		
2N3467					-		2SA706		
2N3468		00.4600	2SA537	-		2SA580	20/1/00		V
2N3485	_ 1	2SA606	2SA537			2SA580			. 1
2N3485A		2SA606	2SA537 2SA537	_		2SA580		_	
2N3486		2SA606	2SA537 2SA537			2SA580			
2N3486A		2SA606	25A531		-	23A300	-	-	
2N3494	_	2SA712		_	+		+		
2N3495		2SA712		+					
2N3496		2SA712		-			 	· · ·	
2N3497		2SA712		-					
A5T3496		2SA712	<u> </u>		_		+		-
A5T3497		2SA712	*****	-	+	2SA580			
2N3502		2SA606	2SA537				-		73
2N3503		2SA606	2SA537			2SA580	-		
2N3504	.0	2SA606	2SA537			2SA580	-		
2N3505		. 2SA606	2SA537			2SA580			-
A5⊤3404	_	2SA606	2SA537			2SA580	<u> </u>		

		ا	>		MAXIM	JM ş	RATING	S					EL	ECTRIC	AL CHAR	RACTER	ISTICS			5 -	20		-
TYPE	USE	MATERIAL	POLALITY	Pc 25*C	Tj	Vas	VCEO	le	lo	190		hes		hfe	hie	hre	hoe	fr *fae	NF	Cab	Coxrbb	OUTLINE	NOTE
		¥	2	(mW)	(°C)	(v)	(v)	(mA)	(µA)	Vca(V	min.	max.	Ic(mA)		(0)	(×10)	(pg)	**fab (MHz)	(dB)	(pF)	(ps)	то.	
A5T3405	SW	S	F	625	150	60	60	600	10	50	100	300	150	135	23K	15	800		4	3 1	135	1/17	WE
2N3551	AP		N	40W	175	115	60	12A			20	90	IOA		T					7 70	12.1	5/1	
2N3552	AP	S	N	40W	175	140	80	12A			20	90	IOA	-1-							113	- 5/1	N-ma
2N3554	SW		N	800	200	60	30	1.24	1		25	100	750				- 7					39	
A5T3565	Α	S	N		150	30	25	50	50n	25	150	600	1	120	20K		100					1/17	7335
2N3570	AH		N		150	30	15	50	10n	6	20	150	5	7				1.5G	IGNZ			72	No. o
2N3571	АН	٠.	N		150		15	50	10n	6	20	200	5					1.5G	IGNZ			72	0.71
2N3572	AH	ᅸ	N		150	_	13	50	10n	6	20	300	5					1.5G	I GNZ			72	
A5T3571	AH	S	N		150	25	15	50	10n	6	20	200	5					1.5G	I GNZ	1-3		1/17	
A5T3572	АН	-	N		150	_	13	50	10n	6	20	300	5					1.5G	I GNZ			1/17	TIE.
2N3576	AH	S	P	360	200	20	15	200			40	120	10					400				18	- 17
2N3583	AP	S	N		200	250	175	IA			40	200	500					-				66	
2N3584	AP	S	N	35W	200	375	250	2A			8	80	1A									66	
2N3585	AP	S	N	35W	200	500	300	2A			8	80	IA									66	
2N3634	SW	S	P	1W	200	140	140	IA	100n	100	50	150	50	40	0.6K	3	200			10		39	
2N3635	sw	L	P	IW	200	140	140	IA	100n	100	100	300	50	80	1.2K	3	200			10		39	
2N3636	SW	S	P	IW	200	175	175	IA	100n	100	50	150	50	40	0.6K	3	200			10		39	
2N3637	SW	S	Р	IW	200	175	175	IΑ	₹00n	100	100	300	50	80	1.2K	3	200			01		39	
A5T3638	SW	S	Р	625	150	25	25	500			20		10	25	2K	26	1.2			20		1/17	
A5T3638A	SW	S	P	625	150	25	25	500			100		10	100	2K	15	1.2			10		1/17	
A5T3644	SW	S	Р	625	150	45	45	600				300	150	100	1.8K	3	300			8		1/17	
A5T3645	SW	S	Р	625	150	60	60	600			100	300	150	100	1.8K	3	300			8		4 / ₇	
2N3680	Α	S	N	300	_	60	50	30	10n	4.5	150	600	10,4									1∕105	
2N3702	Α	S	Р	360	150	40	25	200	100n	20	60	300	50					100				⁹ / ₁₇	
48T3702	Α	S	Р	625	150	40	25	200	100n	20	60	300	50					100				1 / ₁₇	
2N3703	Α	S	Р	360	150	50	30	200	. 100n	20	30	150	50					100			٠	1/17	
48T3703	Α	S	Р	625	150	50	30	200	100n	20	30	150	50					100	6			1/17	
2N3704	Α	S	N	360	150	50	30	800	100n	20		300	50					100	٧			1/17	
A8T3704	A	S	N	625	150	50	30	800	100n	20	100	300	50					100				1/17	
N3705	Α	S	N	360	150	50	30	800	100n	20	50	150	50					100				1/17	
A8T3705	Α	S	N	625	150	50	30	800	100n	20	50	150	50					100				1/17	100
N3706	Α	S	N	360	150	40	20	800	100n	20		600	50					100				1/17	25
A8T3706	Α	S	N	625	150	40	20	800	100n	20	_	600	50					100				1/17	21/
N3707	Α	S	N	360	150	30	30	30	100n	20	100	_	1.0						1.9			1/17	18
A5T3707	Α	S	N	625	150	30	30	30	100n	20	100		0.1						1.9			1/17	Virtin.
A8T3707	Α	S	N	625	150	30	30	30	100n	20	100		0.1						1.9			1/17	10.1
N3708	Α	S	N	360	150	30	30	30	100n	20	_	660	!									1/17	
A5T3708	Α	S	N	625	150	30	30	30	100n	20	_	660	1									1/17	
A8T3708	Α	S	N	360	150	30	30	30	100n	20	_	660	1									1/17	
N3709	Α	S	N	625	150	30	30	30	100n	20	45	_	1									1/17	
5T3709	Α	S	N	360	150	30	30	30	100n	20	_	165	1					_				1/17	50
N3709	Α	S	N	625	150	30	30	30	100n	20		165	1									1/17	
N3710	A	S	N	360	150	30	30	30	100n	20		330	1									1 / ₇	11
5T3710	Α	S	N	625	150	30		30	100n	20		330	1									1/17	
8T3710	Α	S	N	360	150	30	30	30	100n	20		330	1									1/17	
N3711	Α	S	N	625	150	30	\rightarrow	30	100n	20	_	660	-									1/1	
5T3711	A	S	N	625	150	30	30	30	100n	20		660	!									1/17	7
8T3711	Α	_	N	360	150	30		30	100n	20		660	1									1/17	
N3713	AP	_	Ν	150W	200	80		I0A			25	75	IA					4			I	3	
N3714	AP	\rightarrow	Ν	150W	200	100	80	I0A			25	75	IA					4				3	
N3715	AP	\rightarrow	Ν	150W	200	- 80	60	10A				150	IA					4				3	
N3716	AP	\rightarrow	N	150W	200	100	80	10A			50	150	IA					4				3	
N3719	AP	\rightarrow	Р	6W	200	40	\rightarrow	3A	10	40	25	180	IA									5	
N3720	AP	-	Р	6W	200	60		3A	10	60	_	180	IA	T								5	
N3724	Α	S	N	800	200	50	30	500	1.7	40	60	150	100								\Box	39	

TYPE	TOSHIBA	NEC	HITACHI:	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T3405		2SA606			2SA546	2SA580		7.55	
2N3551		2SD181	2SD341		30.72.5				
2N3552		2SD181	200011		-	· N			
2N3554		202101			2SC696		2SC1124		
A5T3565		2SC852	-		200000	2SC1068	2001127		
2N3570		2SC852		2SC1223		2SC1068		100	
2N3571		2SC852		2SC1223		2SC1068			
2N3572		2SC852		2SC1223		2SC1068			
A5T3571		2SC852		2SC1223	-	2SC1068			
A5T3571		2SC852		2SC1223		2SC1068			
2N3576	2SA467	230032	2SA537	2301223	2SA546	2301000	3	7.3	
2N3583	2SC792		25A337	1	20/1040				1
2N3584	2SC792		-		-	2SC1463			
2N3585	230732					2SC1463			200
2N3634	2SA516A					2301403	2SA762		
2N3635	2SA516A 2SA516A						2SA762		-
	25A516A						Z3A10Z	-	-
2N3636 2N3637			-						
	201100	004515	004507	20,4005	2004540	204500	0	204520	-
A5T3638	2SA496	2SA717	2SA537	2SA695	2SA546	2SA580		2SA532	
A5T3638A	2SA496	2SA717	2SA537	2SA695	2SA546	2SA580		2SA532	1
A5T3644	2SA594				2SA546				
A5T3645	2SA594	,			2SA546				
2N3680									
2N3702	2SA509G	2SA643							ļ
A8T3702	2SA509G	2SA643							
2N3703	2SA498	2SA544	-						
A8T3703	2SA498	2SA544				- 1			
2N3704	2SC498					2SC1247A		,	
A8T3704	2SC498					2SC1247A			
2N3705	2SC498				l	2SC1247A			
A8T3705	2SC498	<u> </u>				2SC1247A			
2N3706	2SC498					2SC1247A			
A8T3706	2SC498		1			2SC1247A			T.
2N3707	2SC509					2SC1246			
A5T3707	2SC509					2SC1246			
A8T3707	2SC509					2SC1246			
2N3708	2SC509					2SC1246			
A5T3708	2SC509					2SC1246			
A8T3708	2SC509					2SC1246			
2N3709	2SC509		,			2SC1246			
A5T3709	2SC509					2SC1246		_	
A8T3709	2SC509					2SC1246			
2N3710	2SC509					2SC1246	_		
A5T37I0	2SC509					2SC1246			
A8T37I0	2SC509					2SC1246			
2N3711	2SC509					2SC1246			
A5T3711	2SC509					2SC1246			
A8T3711	2SC509				-	2SC1246			
2N3713	2SC1080		2SC1343				2SD340		
2N3714	2SC1079		2SC1343				2SD340		
2N3715	2SC1080		2SC1343				2SD340 2SD340		
2N3716	2SC1079		2SC1343				2SD340 2SD340		
2N3719	2SA490	2SA616	2001040		+		200040		
2N3719	2SA490 2SA490	2SA616							-
110160	200730	-57010	2SC1212						

			. 1	M.A	XIMUI	M R	ATINGS	;					EL	ECTRICA	L CHARA	ACTERI	STICS					753	
TYPE	USE	ERIAL	POLAUTY	Pc	Ti	Vos	VCEO	lc	Ica	0		þse		hfe	hie	hre	hoe	fr ∗fαe	NF	Cob	Coxrbb	OUTLINE	NOTE
	UUL	MATERI	20	25°C (mW)	(°c)	(V)	(V)	(mA)	(µA)	Vcs(V)	min.	max.	lc(mA)		2.0	(x10)	(µ8)	**fab	(dB)	(pF)	(ps)	TO.	
2N3724A	Α	S	N	IW.	200	50	30	1200	0.5	40	60	150	100		_			(11112)				39	N - D
N3725	A	S	N	800	200	80	50	500	1.7	60	60	150	100		-	_					1 1	39	
N3725A	A	S	N	IW	200	80	50	1200	0.5	60	60	150	100									`39	
22T3725	A	S	N	500	150	60	- 50	500	0.0	- 00													
N3734	A	S	N	IW	200	50	30	1500			30	120	IA			-						39	
N3735	A	S	N	iw	200	75	50	1500			20	80	IA									39	
N3771	AP	S	N	150W	200	50	40	30A	2mA	50	15	60	15A									3	
N3772	AP	S	N	150W	200	100	60	20A	5mA	100	15	60	10A				_	 				3	
N3789	AP	S	P	150W	200	60	60	IOA		100	25	90	IA					4				3	
N3790	AP	S	P	150W	200	80	80	IOA			25	90	IA					4				3	
N3791	AP	s	P	150W	200	60	60	IOA			50	180	IA				_	4				3	
N3792	AP	S	P	150W	200	80	80	IOA			50	180	IA					4				3	
N3798	A	S	P	360	200	60	60	50	10n	50	50	450	0.5	150	30K	25	60	H.	3.5	4		18	
N3799	A	S	P	360	200	60	60	50	10n	50	300		0.5	300	40K	25	60		2.5	4		18	
N3806	A	S	P	500	200	60	60	50	10n	50	150	_	0.5	330	751		00	1		<u> </u>		1/05	
N3806	A	S	P	500		60	60	50	10n	50	300		0.5		-	-	-	+	\vdash	+	+	1/105	
		S	-			_		50	10n	50	150	450	0.5		-					+	+	1/05	
N3808	A		Р	500		60	60	50		50	300		0.5			-		-	-		+	105	
N3809	A	S	Р	500		_	60	_	10n	_	_	_	0.5			-		-	-		-	1/05	
N3810	A	S	Р	500	-	60	60	50	10n	50	150 300	-	0.5		_	\vdash		—	-	 	+	105 105	
N3811	A	S	Р	500	200	60	60	50	10n	50		120	30			-		350			+	52	
N3829	АН	S	Р	360	200	35	20	200	<u> </u>		30	_				-		330			+-	J.	
N3838	A	S	Р	250		60	40	600			100	300	150			├-		10	<u> </u>	-	-	63	
N3846	AP	S	N	150W	175	300	200	20A		ļ	10	60	10A			\vdash	-	10	-		-	63	
N3847	AP	S	N	150W	175	400	300	20A			10	60	10A			-	-	5			-	63	
N3902	AP	S	N	100W	150		400	2.5A			30	90	IA		01/	-	40			4	-	-	
N3903	АН	S	N	625	150	60	40	200		<u> </u>	50	-	10	50	8K	5	40	250 250	<u> </u>	4	\vdash	1/2	
A5T3903	AH	S	N	625	150	60	40	200		₩	50	_	10	50	8K	5 8	_	_	1	4	-	1/7	
N3904	АН	S	N	625	150	60	40	200			100		10	100	IOK	_		300		_	-	1/2	
A5T3904	АН	S	N	625	150	60	40	200			100		10	, 100	IOK	8	40	300		4		1/7	_
N3905	АН	S	Р	625	150	40	40	200			50		10	50	8K	5	40	200	-	-	+	1/17	
A5T3905	АН	S	Р	625	150	40	40	200		<u> </u>	50	150	10	- 50	, 8K	5	40	200		4	-	1/1	
N3906	АН	S	Р	625	150	40	40	200			100	300	10	100	IOK	8	40	250		4	-	1/17	
A5T3906	АН	S	Р	625	150	40	40	200			100	1	10	100	10K	8	40	250		4	-	1/17	
N3962	Α	S	Р	360	200	60	60	200	10n	50	100		IOM	100	17K	10	_		3	6	-	18	
N3963	Α	S	Р	360	200	80	80	200	10n	70	100		IOM	100	17K	10			3	6	_	18	_
N3964	A	S	Р	360	200	45	45	200	10n	40	250	_	10M	250	20K	10	50		2	6		18	
N3965	Α	S	Р	360	200	60	-60	200	10n	50	250	-	IOM	250	20K	10	50	<u> </u>	2_	6	_	18	
N3996	APH	S	N	30W	200	100	80	5A			40	-	1A			ļ	ļ	40		<u> </u>	-	111	
N3997	APH	S	N	30W	200	100	80	5A			80		1A					40	_	_	_	111	
N3998	APH	_	N	30W	200	100	80	5A			40		IA	1				40		1	1	111	
N3999	APH		N	30W	200	100	80	5A			80		IA			_	_	40		1	4_	111	
N4000	APH	_	N	15W	200	100	80	IA			30		500					40				5	
N4001	APH		N	15W	200	120	100	1A			40		500			<u> </u>		40		_		5	
N4002	APH	S	N	100W	200	100	80	30A			20	_	15A									63	
N4003	APH	S	N	100W	200	120	100	30A			20		15A					_				63	
N4004	APH	S	Ň	40W	200	100	80	20A			30		10A									×45	
N4005	APH	S	N	40W	200	120	100	20A			30	150	10A									5∕ ₄₅	
N4013	Α	S	N	360		60	40	500	1.7	40	60	150	100									18	
N4014	Α	S	N	360		80	50	500	1.7	60	60	150	100							Ľ		18	
N4026	A	s	Т	500	200	60	60	T	50n	50	40	120	100									18	
A5T4026	A	S	Р	625	150	60	60	3	50n	50	40	120	100									1/17	
A8T4026	A	s	P	625	150	60	60	T	50n	50	40	-	100		1							1/17	
N4027	Α.	S	Р	500	200	80	80	T	50n	60	40	_	100		1							18	
A5T4027	A	s	P	625	150	80	80	i i	50n	60	40	-	100					1				1/17	
A8T4027	A	s	P	625	150	80	80	H	50n	60	40		_	 				 				1/17	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3724A	2SC485								+
2N3725	2SC485								
2N3725A	2SC485								
Q2T3725	2SC485				2SC456	2SC1247			
2N3734	2SC485				2SC696A			2SC614	
2N3735	2SC485		_		2SC696A			2SC614	
2N3771	2SD114					2SD250			
2N3772	2SD113								1
2N3789	2SA680								1
2N3790	2SA679								
2N3791	2SA680							ĺ	
2N3792	2SA679			†					
2N3798		- 2			2SA731				
2N3799	-	-			2SA731				
2N3806			-		2SA731				
2N3807					2SA731				
2N3808					2SA731				-
2N3809					2SA731			-	
2N3810				1	2SA731	1	ų.		
2N3811					2SA731				-
2N3829	2SA594G				20AIOI			1	
2N3838	2SA682								-
2N3846	2SC1434			-					
2N3847	2SC1434	-							
2N3902	2301434	2SCI 106		-					_
2N3903	2SC498	2SC729							_
A5T3903	2SC498	2SC729		-					
2N3904		2SC729					,		
A5T3904	2SC498 2SC498	250729							
2N3905	2SA503	230723	-		2SA546			2SA532	+
A5T3705	2SA503				2SA546			2SA532 2SA532	
2N3906	2SA503				2SA546	8		2SA532	
A5T3906	2SA503				2SA546			2SA532	
2N3962	2SA503 2SA503	2SC729 -			23A340			23A332	
2N3963	2SA503 2SA503	2SC729		-					-
2N3964								-	
2N3965	2SA503 2SA503	2SC729 2SC729							-
	2SC981	230123	2SC105						
2N3996			2SC105 2SC105	-					1
2N3997 2N3998	2SC981 2SC981		2SC105 2SC105	-					+
2N3998 2N3999	2SC981		2SC105 2SC105	11.11		9			+
	230301	2001161	2SC105 2SC1409						
2N4000 2N4001	-	2501161	2SC1409 2SC1409						+
2N4001	2001425	2SC1161	2501409			2SC1301			+
	2SC1435								
2N4003 2N4004	2SC1435 2SC1435					2SC1301			_
	2SC1435 2SC1435					2SC1301			
2N4005	2501435				200456				+
2N4013	2SC497	-			2SC456	2SC1247			_
2N4014				-	DCAF4C A				+
2N4026	2SA485		_		2SA546 A				-
A5T4026	2SA485				2SA546 A				-
A8T4026	2SA485				2SA546 A	(-
2N4027	2SA485				2SA546 A				
A5T4027	2SA485				2SA546 A		-		- 1
A8T4027	2SA485				2SA546 A				320

Charles and		ير	_	M/	XIMU	VI R	ATINGS	3					EL	ECTRICA	L CHAR	ACTERI	STICS				1	OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	VCEO	lc (Ica			hre	n ,	hfe	hie (Ω)	hre (×10)	hoe	fr *fae **fab	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
4				(mW)	(°C)	(V)	(V)	(mA)	(μA)	Vœ(V)	min.	max.	lc(mA)	1	(52)	(X10)	(µQ)	**fab (MHz)	(ub)	(pr)	(ha)		
N4028	Α	S	î.	500	200	60	60	IA	50n	50	100	300	100									18	
A5T4028	Α	S	Ρ	625	150	60	60	IA	50n	50	100	300	100									1/17	773
A8T4028	Α	S	Р	625	150	60	60	IΑ	50n	50	100	300	100								570	1/17	
N4029	Α	S	Р	500	200	80	80	IΑ	50n	60	100	300	100								14	18	Alex S
A5T4029	Α	S	Р	625	150	80	80	IA	50n	60	100	300	100		1							1/17	100
48T4029	Α	S	Р	625	150	80	80	1A	50n	60	100	300	100									1/17	WAT
2N4030	Α	S	Р	800	200	60	60	ΙA	50n	50	40	120	100			Г						39	7.16
2N4031	A	S	Р	800	200	80	80	IA	50n	60	40	120	100			500						39	
2N4032	Α	S	Р	800	200	60	60	IA	50n	50	100	300	100									39	Line
N4033	Α	S	Р	800	200	80	80	IA	50n	60	100	300	100									39	
N4058	A	S	Р	625	150	30	30	30	100n	20	100	400	0.1				5	-	1.7			1/17	T.X
45T4058	A	5	P	625	150	30	30	30	100n	20	100	-	0.1						1.7			1/17	196
A8T4058	A	S	P	625	150	30	30	30	100n	20	100	-	0.1	-					_			⁴ ∕₁7	100
N4059	A	S	P	625	150	30	30	30	100n	20	45	660	1		_	1				-		4/17	
A5T4059	A	S	P	625	150	30	30	30	100n	20	45	660	1 10	_		-	-					4/17	
A8T4059	A	S	P	625	150	30	30	30	100n	20	45	660	1									1/17	COSINS.
		_	P		_	30	30	30	100n	20	45	165				+-	-				1	1/17	1 3
2N4060	A	S	1	625	150	-	-	-		20	45	-		-		-				_	-	1/17	
A5T4060	A	S	P	625	150	30	30	30	100n			-	1			-		-		-	-	1/17	
A8T4060	A	S	Р	625	150	30	30	30	100n	20	45	-	1	_	-	-	-	-		-	-	1/17 1/17	
2N4061	A	S	Р	625	150	30	30	30	100n	20	90		1			-				-	-		- 7
A5T4061	Α	S	Р	625	150	30	30	30	100n	20	90		1	_		-	_			_	+	1/1	
48T4061	Α	\$	Р	625	150	30	30	30	100n	20	90	-	1		_	-			_	-	+	1/1	_
2N4062	Α	S	Р	625	150	30	30	30	100n	20	180	-	1			-				_	-	1/17	
A5T4062	Α	S	P	625	150	30	30	30	100n	20	180		1								-	1/12	-
48T4062	Α	S-	Р	625	150	30	30	30	100n	20	180	660	1			Ú.					_	1/1	3.5
2N4104	Α	S	N	300	200	60	60	50	10n	45	400	800	10M	500	42K	8	60			4.5		18	74
2N4123	AH	S	Ν	625	150	40	30	200	50n	20	50	150	2					250		-	<u> </u>	1/1	
A5T4123	AH	S	N	625	150	40	30	200	50n	20	50	150	2					250				1/17	
2N4124	AH	S	N	625	150	40	30	200	50n	20	120	360	2					300	1 155 1			1/17	
A5T4124	AH	S	N	625	150	30	25	200	50n	20	120	360	2					300				1/2	
2N4125	АН	S	Р	625	150	30	30	200	50n	20	150	150	2			Г		200				1/17	
A5T4125	АН	S	P	625	150	30	30	200	50n	20	120	360	2					250				1/2	- 215
2N4126	АН	S	P	625	150	25	25	200	50n	20	120	360	2					250				1/2	169
A5T4126	АН	S	P	625	150	25	25	200	50n	20	120	360	2					250				1/17	- 112
2N4138	A	S	N	300		30	30	100	10n	25	30		IOM							٠,		46	LINS.
A5T4248	A	S	P	625	150	40	40	100	10n	40	50		0.1	50				10.7				1/7	33
A5T4249	A	S	P	625	150	60	60	100	10n	40	100	300	0.1	100	17K	10	40		3			1/17	178
A5T4250	A	S	P	625	150	40	40	100	10n	40	250	-	-	250	20K	10	50		2	t		1/17	The state of
2N4252	AH	S	N	200		30	18	50	50n	15	50	-	2	-	1							72	The bar
2N4253	AH	S	N	200		30	18	50	50n	15	30	-	-	-				-				72	720
2N4260	AH	S	P	200	200	15	15	30	5511	1.5	30	-	_	-		1	1	J.2GHZ	20.00	-		72	Cont.
A5T4260	AH	S	P	500	150	15	15	30			30	-					-	1.2GHZ		-	1	1/17	1
	AH	S	P	200	200	15	15	30		-	30	-		-	-	+	_	1.5GHZ				72	- 80
2N4261 A5T4261	AH	S	P	500	150	15	15	30	-	-	30			-	-	+	-			1	1	1/2	
	-	-	-	200	-	_	80	2A	-	-	30	-	-	-	-	+		30	-	+	+-	5	A COLUMN
2N4300	APH	-	N	15W	200	100				-	-	-	_	-	-	+-	+	40		-	+	61	121
2N4301	APH	-	N	50W	200	100	80	10A		-	30	-	-	-	-	+-	+	40	-	-	-	3	
2N4398	APH		P	200W	200	40	40	30A		-	15		1		-	-	+		-	-	+-	3	1000
2N4399	APH		P	200W	200	60	60	30A		1	15	-	-	0.0		1	100	4		1	+		-
2N4402	АН	S	P	625	150	40	40	600			50	-		30	7.5K	+	100	_	-	-	-	1/17	-
A5T4402	АН	S	Р	625	150	40	40	600			50	+	150	30	7.5K		100			-	-	1/17	
2N4403	АН	S	Р	625	150	40	40	600	1	and the	100	-		60	15K	8	100		_	_	-	1/17	-
A5T4403	АН	S	Р	625	150	40	40	600			100	+		60	15K	8	100		-	<u> </u>	_	1/17	ļ
2N4409	Α	S	Ν	625	150	80	50	250	10n	60	60	400	100						-		\perp	1/17	
A5T4409	Α	S	N	625	150	80	50	250	10n	60	60	400	100									1/17	
2N4410	Α	S	N	625	150	120	80	250	10n	100	60	400	100									1/17	ĺ

									_
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4028	2SA681	2SA717	2SA537A		2SA546				
A5T4028	2SA681	2SA717	2SA537A	17	2SA546				
A8T4028	2SA681	2SA 717	2SA537A		2SA546			-	
2N4029	2SA681	2SA 717 2SA 708	2SA537A		2SA546				
A5T4029	2SA681	2SA 708	2SA537A	-	2SA546				
A8T4029	2SA681	2SA 708	2SA537A	-	2SA546				
2N4030	2SA681	2SA 708 2SA 717	2SA537A 2SA537A	-	2SA546		_		
	2SA681	2SA 708	2SA537A 2SA537A	-	2SA546				
2N4031	2SA681	2SA 708	2SA537A 2SA537A		2SA546				+
2N4032	2SA681	2SA 708	2SA537A		2SA546				+
2N4033	2SA509	2SA643	23A33 /A	25 40000	20/1040		-		+
2N4058				2SA9696 2SA9696	-				
A5T4058	2SA509	2SA643		2SA9696					-
A8T4058	2SA509	2SA643		·2SA9696	-				_
2N4059	2SA509	2SA64 3		2SA9696					+
A5T4059	004500	2SA643		2SA9696 2SA9696	+				+
A8T4059	2SA509	2SA643		2SA9696 2SA9696	-				+
2N4060	2SA509	2SA643							+-
A5T4060	2SA509	2SA643		2SA9696	-		 		
A8T4060	2SA509	2SA643		2SA9696					+-
2N4061	2SA509	2SA643		2SA9696			-		+-
A5T4061	2SA509	2SA643		2SA9696					
48T4061	2SA509	2SA643		2SA9696					
2N4062	2SA509	2SA64 3		2SA9696					-
A5T4062	2SA509	2SA643		2SA9696					ļ
A8T4062		2SA643		2SA9696					-
2N4104	2SC559	2SC945				2SC 725			
2N4123	2SC998	2SC578		2SC730	2SC456	2SC 202		2SC423	
A5T4123	2SC998	2SC578		2SC730_	2SC456	2SC 202		2SC423	
2N4124	2SC998	2SC578		2SC730	2SC456	2SC 202		2SC423	
A5T4124	2SC509	2SC578		2SC730_	2SC456	2SC202		2SC423	
2N4125	2SA661	2SA 643			2SA546	2SA558		2SA532	
A5T4125	2SA661	2SA643							
2N4126	2SA661	2SA 643			2SA546	2SA558		2SA532	
A5T4126	2SA661	2SA 643			2SA546	2SA558		2SA532	-
2N4138		2SC945	2SC1204	2SC422					ļ <u> </u>
A5T4248	2SA661								
A5T4249	2SA661			1					
A5T4250	2SA661								L_
2N4252			2SC460	2SC710		2SC 964	2SC1128		
2N4253			2SC460	2SC710		2SC 964	2SC1128		
2N4260	2SA561		2SA530			2SA558		2SC532	1
A5T4260	2SA561					2SA558		2SC532	
2N4261	2SA561		2SA530			2SA558		2SC532	
A5T4261	2SA561					2SA558		2SC532	
2N4300		2SC1160			2SC697		2SC756		
2N4301	2SC1079								
2N4398		i ·							
2N4399		ĺ		_					
2N4402	2SA504	2SA606	2SA742			2SA580	,		
A5T4402	2SA504	2SA606	2SA742			2SA580			
2N4403	2SA504	2SA606	2SA742			2SA580			1
A5T4403	2SA504	2SA606	2SA742			2SA580			
2N4409	2SC1166	2SC853	30		1	2SC826			1
	2001100			+	_				+
A5T4409	2SC1166	2SC853				2SC826			

			_	M.A	XIMU	M R	ATING	S .					EL	ECTRICA	L CHAR	ACTER	STICS						-
TYPE	USE	MATERIAL	POLAUTY	Pc	Tj	Vos	VCEO	le	las	90		hre		hfe	hie	hre	hoe	fT	NF	Cob	Coxrbb	OUTLINE	NOTE
		WA	POL	25°C (mW)	(°C)	(V)	(V)	(mA)	(μA)	Vos(V)	min	max	Ic(mA)			(x10)		fT *fae **fab (MHz)	(dB)	(pF)	(ps)	TO.	
A5T4410	Α	S	N	625	150	120	80	250	10n	100	60	400	10			-		(1111111)			1	1/1	48
2N4423	АН	S	Р	360	150	12	12	200	1	6	40	150	30								160	- 1/2	
2N4854	SW	S	N P	300	200	60	40	600	10n	50-	100	300									100	1/05	
2N4855	SW	S	N P	300	200	60	40	600	10n	50	40	120	150									Yos	V. (2)
N4901	AP	S		87.5W	200	40	40	5A			20	80	IA					4				3	15
2N4902	AP	S	Р	87.5W	200	60	60	5A			20	80	IΑ					4			100	3	This -
N4903	AP	S	Р	87.5W	200	80	80	5A			20	80	IΑ					4				3	15
N4904	AΡ	S	Р	87.5W	200	40	40	5A			25	100	2.5A					4				3	116
N4905	AP	S	Р	87.5W	200	60	60	5A			25	100	2.5A					4			T.	3	
N4906	AP	S		87.5W		80	80	5A			25		2.5A					4				3	10
N4913	ÁΡ			87.5W		40		5A			25		2.5A				•	4				3	
N4914	AP			87.5W		60		5A			25		2.5A					4				3	
N4915	AP	S		87.5W	200	80	80	5A			25	100	2.5A					4				3	
2N4996	АН	S	N	250	150	30	18	50	100n	15	50		2									1/17	
N4997	АН	S	N	250	150	30	18	50	100n	15		150						L	L	ļ		1/17	
2N4998	APH	S	N	35W	200	100	80	2A			30		IA							L		59	
2N4999	APH	S	Р	35W	200	100	80	2A			30		IA							<u> </u>		59	
2N5000	APH		N	35W	200	100	80	2A				200								_	1	59	
2N5001	APH		Р	35W	200	100	80	2A				200										59	
2N5002	APH		Ν	57W	200	100	80	5A			30		2.5A						_	ļ		59	
2N5003			Р		200	100	80	5A			30		2.5A									59	
2N5004	APH		Ν	57W	200	100	80	5A					2.5A							<u> </u>	_	59	
2N5005	APH	S	Р	57W	200	100	80	5A			70	200	2.5A							ļ		59	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
A5T4410		2SC1217							1
2N4423				2SA696	2SA719				
2N4854						Denistration of the second			(C)
2N4855									
2N4901	2SA680		-						_
2N4902	2SA680				-				-
2N4903	2SA680								+
2N4904 2N4905	2SA680 2SA680								+
2N4906	2SA680								
2N4913	2SC1080		2SC1343			_		_	+
2N4914	2SC1080		2SC1343						
2N4915	2SC1080		2SC1343						
2N4996	2SC383		2SC684				2SC1128		
2N4997	2SC383		2SC684				2SC1128		1
2N4998	2SC558			2SC766	2SC901				
2N4999		2SA648							
2N5000	2SC558			2SC766	2SC901				
2N5001		2SA648							
2N5002	2SC558				2SC901				
2N5003		2SA648							
2N5004	. 2SC558				2SC901				
2N5005		2SA648							
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TYPE	USE	MATERIAL	POLALITY	Pc 25*C (mW)	Tj (°C)	V08 (V)	VCEO (V)	lc (mA)	lα (μA)	Vos(V)	min.	max.	·Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (µr)	ft *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	то.	том
2N5038	APH	S	N	140W	200	150	90	20A	(,,,	1 4(1)	20	1.00						60				3	1//
2N5039	APH	S	N	140W	200	120		20A			20	100						60				3	147
2N5058	A	S	N	IW	200	300		150	50 n	100	30	150		-	-	-		- 00				39	110
A5T5058	A	S	N	800	150	300	300	150	50n	001	30	150	30									1/17	
2N5059	· A	S	N	IW	200	250	250	150	50n	100	30	150				-					-	39	
		S				_			50n	100	30	_										1/17	
A5T5059 2N5067	A AP	S	N	800	150	250	250	150	5011	100	20	150	-					4		-	-	3	100
	AP	S	N	87.5W		40		5A	-	-	20	80	-	_				4		-		3	172
2N5068		S	N	87.5W	200	60	-	5A		-	20	4.7	IA	-	_	-	-	4		-	-	3	
2N5069	AP	S	P	87.5W	200	80	-	5A	50n	25	_			-		-	-	40	3	-		1/17	
2N5086	A	_	P	625	150	50		50	50n	35	150	500	2020					40	3			×17	
A5T5086	Α	S		625	150	50	50		10,141,1	35	150			-					2	-			
2N5087	Α	S	Р	625	150	50		50	50n	35	250	800						40		- .		1/2	
A5T5087	Α	S	Р	625	150	50		50	50n	35	250	800						40	2		-	39	
2N5147	APH	S	Р	7W	200	100	80				70	200	-			_				-	-		
2N5148	APH	_	N	7W	200	100	80			-	30	-	1A			_				-	-	39	-
2N5149	APH	S	Р	7W	200	100	80				70	200				-				-		39 -	
2N5150	APH	S	N	7W	200	100	80	_			30	90			-					-		39	
2N5157	APH	S	N	100W	150			3.5A			30	90						5		_	-	3	-
A5T5172	Α	S	N	625	150	25	_	100	100n	25	100	_								<u> </u>	-	1/1	
47T5172	Α	S	N	625	150	25	25	100	100n	25	100	500	10								_	1/17	1.2
48T5172	Α	S	N	625	150	25	25	100	100n	25	_	500									<u> </u>	1/17	335
2N5209	Α	S	N	625	150	50	50	50	50n	35		300	_						3			1/17	
45T5209	Α	S	N	625	150	50	50	50	50 n	35	100		_						3		-	1/17	
2N5210	Α	S	N	625	150	50	50	50	50n	35	200	600	-						2			1/1	0,1,
45T5210	Α	S	N	625	150	50	50	50	50n	35		600							2	<u></u>		1/17	1
2N5219	АН	S	N	625	150	20	15	100 -	100n	10	35	500						150		ļ		1/17	
A5T5219	AH	S	N	625	150	20	15	100	100n	10	1,000	500						150				1/17	
2N5220	АН	S	N	625	150	15		500	100n	10		600	-					100	,			1/17	
A5T5220	АН	S	N	625	150	15	_	500	100n	10		600						100				1/1	
2N5221	АН	S	Р	625	150	15	15	500	100n	10	30	600	50					100				1/1	
A5T5221	AH	S	Р	625	150	15	15	500	100n	10	30	600	50	250				100				1/17	William.
2N5222	АН	S	N	625	150	20	15	50	100n	10	20	1500	4	12				450				1/17	5,00
A6T5222	АН	S	N	625	150	20	15	50	100n	10	20	1500	4					450				1/17	
2N5223	АН	S	Р	625	150	25	20	100	100n	10	50	800	2					150				1/17	
A5T5223	АН	S	Р	625	150	25	20	100	100n	10	50	800	2					150				1/17	1000
2N5225	АН	S	N	625	150	25	25	500	300n	15	30	600	50					50				1/17	DIFE
A5T5225	АН	S	N	625	150	25	25	500	300n	15	30	600	50					50				1/17	
2N5226	АН	S	Р	625	150	25	25	500	300n	15	30	600	50					50				1/1	
45T5226	АН	S	Ρ	625	150	25	25	500	300n	15	30	600	50					.50				1/1	
2N5227	АН	S	P.	625	150	30	30	50	100n	10	50	700	2					100				1/1	No.
A5T5227	АН	S	Ρ	625	150	30	30	50	100n	10	50	700	2					100				1/1	
2N5241	APH	S	N	125W	150		400	5A			15	35	2.5A					5				3	
2N5301	APH	S	N	200W	200	40	40	30A	ImA	40	15	60	15A					2				3	
2N5302	APH	S	N	200W	200	60	60	30A	ImA	60	15	60	ſ5A					2				3	
2N5303	APH	S	N	200W	200	80	80	20A	ImA	80	15	60	I0A					2				3	
2N5332	APH	S	Р	360	200	20	12	100	I0n	15	20	80	10									46	
2N5333	APH	S	Р	15W	200	100	80	2A			30	120	IA					30				5	
2N5384	APH	S	Р	30W	200	100	80	5A			20	80	2A					30				Ш	March 1
2N5385	APH	S	Р	30 W	200	100	80	5A			20	80	2A					30				Ш	
2N5386	APH	S	Р	50W	200	100	80	I2A			20	80	6A					30				61	
2N5387	AP	S	N	100W	200	200		7.5A			25	100	2A					15				61	
2N5388	AP	S	N	100W	200	250		7.5A			25	100				_		15				61	
2N5389	AP	S	N	100W	200	300		7.5A	_		25	100	2A					15				61	
2N5390	AP	S	N	15W	200	120		2A			2K	20K			<u> </u>							33	DARLING
2N5399	AH	S	N	360	200	25	_	100	10n	15	30	90										46	-4-

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5038	2SC1435					2SC1301			
2N5039	2SC1435					2SC1301			
2N5058	2SC996								
A5T5058	2SC995	2SCII03A							
2N5059	2SC996				- 1				
A5T5059	2SC995	2SC1103A							
2N5067	2SC1080		2SC1343						
2N5068	2SC1080		2SC1343						
2N5069	2SC1080		2SC1343						
2N5086	2SA682								
A5T5086	2SA682								
2N5087	2SA682								
A5T5087	2SA682								
2N5147	2SA740		200	_					
2N5148			2SC610		2SC 697				
2N5149	2SA740		000000		-				
2N5150			2SC610		2SC697		200,046		
2N5157	2SC1434					2SC1228	2SC1348		-
A5T5172	2SC501					2SC971			
A7T5172	2SC501					2SC971			
A8T5172	2SC501	·				2SC971			-
2N5209	2SC501		•			2SC971			-
A5T5209	2SC501					2SC971			
2N5210	2SC501					2SC971			
A5T5210	2SC501					2SC971			
2N5219	2SC501					2SC971			ļ
A5T5219				0001000		2SC971 2SC971			
2N5220	2SC509			2SC1209					
A5T5220	2SC509	2SA643		2SC1209 2SA695		2SC971			
2N5221		2SA643 2SA643		2SA695 2SA695			_		+
A5T5221	2SC501	25A643		25A693		2SC971			-
2N5222 A6T5222	2SC501					2SC971			
2N5223	230301	-				230371	-		-
A5T5223		2SA643		· .					
2N5225	200500	23A043		2SC1209		2SC971			
A5T 5225	2SC509 2SC509	-		2SC1209		2SC971	-		
2N5226	230309	2SA643	2SA537	2301203	2SA546	230371			
A5T5226		2SA643	2SA537		2SA546		-		
2N5227		2SA643	EO/1001		201,012		-		
A5T5227		2SA643		· -			†		
2N5241	2SC1434	20,10.0				2SC1228			11 11 11
2N5301	2SC1435					2SC1401			
2N5302	2SC1435					2SC1401			-
2N5303	2SC1435					2SC1401			* 1
2N5332	1.50		2SA741			2SA524			
2N5333		2SA627							
2N5384		2SA627							
2N5385		2SA627							
2N5386	2SA679		· · · · · · · · · · · · · · · · · · ·						
2N5387	2SC1434								
2N5388	2SC1434								
2N5389	2SCI434				-				
2N5390	2SD107			,					17.07
2N5399			2SA741			2SA524			

	ľ	=	>	M.	AXIMU	M F	RATING	s					EL	£CTR1C#	L CHAR	ACTER	STICS				VI-2	1.7	1
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	VCEO	tc	los	10		hre		hfe	hie	hre	hoe	f t *fae	NF	Cob	Coxrbb	OUTLINE	NOTE
		¥.	2	(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	max.	lc(mA)		(Q)	(×10)	(µg)	**fab (MHz)	(dB)	(pF)	(ps)	10.	7.
2N5400	Α	S	Ρ	625	150	130	120	600	100n	100	40	180	10					100	8			1/17	
A5T5400	Α	S	Ρ	625	150	130	120	600	100n	100	40	180	10					100	8			1/17	7
2N5401	Α	S	Р	625	150	160	150	600	50n	120	60	240	10					100	8			1/1	1
A5T5401	Α	S	Р	625	150	160	150	600	50 n	120		240	10					100	8			1/17	
2N5447	Α	S	Р	625	150	40	25	200	100n	20	60	300	50					100				1/17	
2N5448	Α	S	Р	625	150	50	30	200	100n	20	30	150	50					100				1/17	
2N5449	Α	S	N	625	150	50	30	800	100n	20	100	300	50					100				1/17	
2N5450	Α	S	N	625	150	50	30	800	100n	20	50	150	50					100				1/17	
2N5451 2N5525	A	S	N	625 500	150	40	~20 30	800 200	100n 100n	20	30	600	50	FIZ				100				1/17	D. A. D. L. W. O. T. O.
2N5526	A	S	N	500	150	40	30	200	100n	5	_			5K IK								1/ ₇	DARLINGTO
2N5550	A	S	N	625	150	160	140	600	100n	100	60	250	10	11/					10			*/ ₇	DAKUNGIC
A5T5550	A	S	N	625	150	160	140	600	100n	100	60	250	10	-		-			10		L	*/ ₇	
2N5551	Α	S	N	625	150	180	160	600	50n	120	80	250	10						8			1/7	
A5T5551	Α	S	N	625	150	180	160	600	50n	120	100.00	250	10						8			1/7	
2N5571	APH	S	N	140W	200	120	90	30A		125	20	100	15A					50				3	
2N5572	APH	S	N	140W	200	150	120	30A	- 9		20	100	15A	7	-	- 1		50				3	
2N5683	APH	S	Р	300W	200	60	60	50A	2mA	60	15	60	25A		-			2				3	
2N5684	APH	S	Р	300W	200	80	80	50A	2mA	80	15	60	25A					2				3	
2N5685	APH	S	Ν	300W	200	60	60	50A	2mA	60	15	60	25A					2				3	
2N5686	APH	S	Ν	300W	200	80	80	50A	2mA	80	15	60	25A		13.			2				3	
2N5758	APH	S	Ν	150W	200	100	100	6A	ImA	100	25	100	3A					- 1				3	
2N5759	APH	S	Ν	150W	200	120	120	6A	ImA	120	20		3A					I				3	
2N5760	APH	S	N	150W	200	140	140	6A	lmA	140	15	60	3A					1				3	
2N5867	APH	S	_	_	200	60	60	5A	100	60	20	100	1.5A				-	4		- 2		3	
2N5868	APH	S	_	87.5W	200	80	80	5A .	100	80	20	100	1.5A				-	4			150	3	
2N5869	APH	S	\rightarrow	87.5W	200	60	60	5A	100	60	20	100	1.5A			1		4	2	94	- 1	3	
2N5870 2N5871	APH	S	N P	87.5W 115W	200	80	80	5A	100	80	20	100	1.5A			-		4				. 3	
2N5872		S	F	115W	200	60 80	60 80	7A 7A	250 250	60 80			2.5A					4				3	
2N5873	APH	_	N	115W	200	60	60	7A	250	60	_	_	2.5A 2.5A					4	_			3	
2N5874	$\overline{}$	\rightarrow	N	115W	200	80	80	7A	250	80			2.5A			-+		4				3	
2N5875		s	P	150W	200	60	60	10A	500	60			4A					4				3	
2N5876	-	s	P	150W	200	80	80	10A	500	80		100			_			4				3	
2N5877		_	N	150W	200	60	60	10A	500	60	_	100	4A					4			-	3	10
2N5878	APH	S	N	150W	200	80	80	IOA	500	80	-		4A					4				3	
2N5879	APH	s	Р	160W	200	60	60	15A	500	60	20	100	6A					4				3	
2N5880	APH	S	Р	160W	200	80	80	15A	500	80	20	100	6A					4				3	
2N5881	_	\rightarrow	N	160W	200	60	60	I5A	500	60			6A					. 4				3	
2N5882	-		N	160W	200	80	80	I5A	500	80		_	6A					4		- 9		3	
2N5883	\rightarrow		_	200W	200	60	60	25A	1000	60		100	10A					4				3	
2N5884	\rightarrow	\rightarrow	\rightarrow	200W	200	80	80	25A	1000	80		100	I0A					4				3	
2N5885	-	\rightarrow		200W	200	60	60	25A	1000	60	\rightarrow	100	IOA					4				3	
2N5886			-	200W	200	80	80	25A	1000	80	-		I0A					4				3	
2N5938	\rightarrow	\rightarrow	\rightarrow	20W	200	60	50	3A			30	$\overline{}$	IA					150				1.6	
2N5939 2N5940		\rightarrow	\rightarrow	40W	200	80	80 70	10A			\rightarrow		5A			_	_	120	-		_	111	
2N5940 2N6127		_			200	70		A01					5A					120		-	\dashv	111	
2N6127 2N6128		-			200	100	80	10A 10A		\dashv	30		5A		-	-	-	40	\dashv			61	
2N6270		-			200	100	_	30A			30 20	_	5A					40	\dashv	-	\dashv	61	
2N6270 2N6271	-	\rightarrow	_	_	200	120	100	30A		\dashv	20	_	15A 15A			+	-+	70	\dashv			3	
2N6271 2N6272	_	_	_		200	100	-	30A			20	_	15A			-	-+	70 70			-+	63	
2N6273	$\overline{}$	-			200	120	100	30A		\dashv	20	\rightarrow	15A			-	\rightarrow	70	-	\rightarrow	-	63	
2N6322		\rightarrow			-	_	200	30A			40	\rightarrow	5A	-		-	-	70	-	-+	\dashv	3	
2N6323		\rightarrow			\rightarrow	_		30A		\rightarrow	30	\rightarrow	5A		_		-					3	

						_			
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5400		2SA712							
A5T5400		2SA712			-				
2N5401		2SA712							_
A5T5401		2SA712							
2N5447			2SA537		2SA546				
2N5448			2SA537		2SA546				1
2N5449		2SC959	2SC708						
2N5450		2SC959	2SC708						
2N5451		2SC959	SC708						
2N5525									_
2N5526									
2N5550									
A5T5550									
2N5551									
A5T5551									
2N5671	2SC1435					2SC1401			
2N5672	2SC1435					2SC1401			
2N5683									
2N5684									
2N5685								(1	
2N5686									
2N5758	2SC 1434	1	2SC1343						
2N5759	2SC 1434		2SC1343						
2N5760	2SC 1434								-
2N5867	2SA680								
2N5868	2SA680						·		
2N5869	2SC1080								
2N5870	2SC1080					W			
2N5871	2SA680						•		
2N5872	2SA680								
2N5873	2SC1080		2SC1343						
2N5874	2SC1080		2SC1343						
2N5875									
2N5876									
2N5877	2SC1434					2SC1401			
2N5878	2SC1434					2SC1401			
2N5879									
2N5880	0001405								
2N5881	2SC1435					2SC1401			
2N5882	2SC1435					2SC1401			
2N5883									
2N5884	2001425					2001401			
2N5885	2SC1435					2SC1401			
2N5886	2SC1435	2001303				2SC1401			
2N5938	2SC1080	2SC1307	2001242			-			
2N5939	29C1080		2SC1343 2SC1343						
2N5940 2N6127	2SA679		2301343						
2N6127 2N6128	2SC1080		2SC1343					-	
2N6270	2SC1080 2SC1435		2001343			2SC1299			
2N6271									
2N6271 2N6272	2SC1435 2SC1435					2SC1299 2SC1299			
2N6272 2N6273	2SC1435 2SC1435					2SC1299 2SC1299	_		
2N6322	2SC1435 2SC1435					2SC1299 2SC1299			
2N6322 2N6323	2SC1435 2SC1435					2SC1299 2SC1299			
2110323	2301433					2301299	_		-

		¥	ΙÈ		LUMIXA		ATINGS				_			ECTRICA				fr			1.50	OUTLINE	NO:
TYPE	USE	MATERI	POLAU	Pc 25 C	Tj (°C)	Vos (V)	VCEO (V)	1c (mA)	los (μA)	Vcs(V)	min.	hre	lc(mA)	hfe	hie (Q)	hre (×10)	hoe (#75)	fr *!ae **!ab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	то.	NO
			_	(mW)			11.52		(µA)	V (SI, V)		max.	_		1,000		1,20	(MHz)			-	C2	
2N6324	AP	S	N	200W	200	300	200	30A			40	150	5A								-	63	
2N6325	AP	S	N	200W	200	400	300	30A			30	150	5A								-	63	
2N6326	APH	S	Ν	200W	200	60	60	30A			6	30	30A			-					-	3	
2N6327	APH		Ν	200W	200	80	80	30A			6	30	30A									3	_
2N6328	APH		Ν	200W	200	100	100	30A			6	30	30A								_	3	
2N6329	APH		Р	200W	200	60	60	30A			6	30	30A						_		-	3	
2N6330	APH		Ρ	200W	200	80	80	30A			6	30	30A									3	
2N6331	APH		Р	200W	200	100	100	30A			6	30	30A							_		3	
2N6461	Α	S	Ν	IW	200	300		100	50n	200	30	120	20								-	39	
2N6462	Α	S	N	IW	200	300		100	50n	200	100	300	20								1	39	
2N6463	Α	S	N	IW	200	250		100	50n	150	30	120	20									39	
2N6464	Α	S	N	IW	200	250		100	50n	150		300	20				_	L			-	39	
TIS37	АН	S	Р	625	150	35	32	50	1 00 n	10	45		1					80	2.5	ļ	_	1/17	
TIS38	АН	S	Р	625	150	35	32	50	100n	10	25		1					50			_	1/17	
TIS62A	АН	S	Ν	500	150	30	12	30	100n	10		225	4			L		500	6			1/17	
TIS63A	АН	S	N	500	150	30	12	30	100n	10	_	225	4					500			1	1/7	
TIS64A	АН	S	N	500	150	30	12	30	100n	10	50	150	4			L		500			1_	1/17	
TIS84	АН	S	N	500	150	40	30	50	50n	10	30		4						2.8		_	4/17	
TIS86	АН	S	Ν	400	150	30	30	50	100n	15		200	4						2.5			1/17	
TIS87	АН	S	Ν	400	150	45	45	50	100n	15	30	150	12									4/17	
TIS90	Α	S	Ν	625	150	40	40	400	100n	20	160	1	50	-							_	1/17	
TIS90M	Α	S	Ν	625	150	40	40	400	100n	20	160	-1-3	50		11							1/17	
TIS91	Α	S	Р	625	150	40	40	400	100n	20	160		50									4/17	
TIS9IM	Α	S	Р	625	150	40	40	400	100n	20	160		50								_	1/17	
TIS92	Α	S	Ν	625	150	40	40	400	100n	20	160		50									1/17	
TIS92M	Α	S	Ν	625	150	40	40	4Q0	100n	20	160		50		_		-		10.	_		1/17	
TIS93	Α	S	Ρ	625	150	40	40	400	100n	20	160		50									1/17	
TIS93M	Α	S	Р	625	150	40	40	400	100n	20	160		50	_								4/17	
TIS94	ĴΑ	S	N	625	150	60	40	200	1 0 n	40	340		0.1						3			4/17	
TIS95	Α	S	N	625	150	80	60	200	1 0 n	40	200		1						3			1/17	
TIS96	Α	S	N	625	150	80	65	200	1 0 n	40	110		100						3			1/17	
TIS97	Α	S	N	625	150	60	40	200	10n	40	340	_	0.1	_		1			3			1/17	
TIS98	Α	S	N	625	150	80	60	200	10n	40	200		1						3			3/17	
TIS99	Α	S	N	625	150	80	65	200	10n	40	110		100						3			1/17	
TISI00	Α	S	Ν	625	150	180	081	100	50n	75	20		1								-	1/17	
TISIOI	Α	S	Ň	625	150	150	150	100	50n	75	20		1								-	1/17	
TIS105	АН	S	Ν	625	150	45	45	50	50n	30	_	150	-							-	_	4/17	
TISI08	АН	S	Ν	500	150	40	30	50	50n	10	25		4						3			3/17	
TIS109	SW	_	N	625	150	60	30	_	100n	20	-	400	_					250	- 11		-	1/17	
TISIIO	SW	S	N	625	150	60	40	800			50						-	200		_		1/17	
TISIII	SW	S	N	625	150	60	40	800			100	300	1					250				1/17	
TISI12	SW	S	Р	625	150	60	40	600	20n	50	100	300	-		1.							1/17	
TISI25	АН	S	N	250	150	40	30	50	50n	10	30		4	-					. 14			1/17	
TISI26	АН	S	Ν	400	150	-	30	50	50n	30	25		10			_		600			-	1/17	_
TISI28	АН	-	Р	250	150	-	45	30	100n	25	30	_	2				1				1	1/17	
TISI29	АН	S	N	250	150	-	25	30	100n	25	60	-	4	_				800		-		1/2	
TISI33	SW	S	N	700	150		30	500	1.7	60	60	-	-	_					-			1/17	
TISI34	SW	_	N	700	150	-	30	500	1.7	60	50	+	_	_	-							3/17	
TIS135	sw	S	N	700	150	80	50	500	1.7	60	60	-	-							-	20	3/17	
TISI36	sw	S	N	700	150	80	50	500	1.7	60	50	150	100								-	1/1	_
TISI37	АН	S	Р	625	150	-	32	50	100n	10	45		1					80			10	2/17	
TISI38	АН	S	Р	625	150	35	32	50	100n	10	25		1					50		-	-	X1	_
																	1				1_		
	11			1		1		1		1	1	1		1	1	1			1	1		1	1

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N6324	2SC1435					2SC1299			
2N6325	2SC1435					2SC1401	1		
2N6326	2SC1435					2SC1299			
2N6327	2SC1435			-		2SC1299			
2N6328	2SC1435					2SC1299			
2N6329	2001100				-	2001233			
2N6330									
2N6331									
2N6461	2SC996		2SC685						
2N6462	2SC996		2SC685						_
2N6463	2SC996		2SC685						
2N6464	2SC996		2SC685						
T1S37	200000	2SA682	200000				2SA706		
TIS38		2SA682					2SA706		
TIS62A		2SC729					2SC470		
TIS63A		2SC729		1		1.17	2SC470		
TIS64A		2SC729				- 77	2SC470		
TIS84		2SC729					2SC470		
T1S86		2SC729					2SC470		
T1S87		2SC729					2SC470		
TIS90	2SC509	200723		+		2SC1247	230470		
T1S90M	2SC509		-			2SC1247			
TIS9I	250503	2SA643		2SA696		2301247		-	
TIS9IM		2SA643 2SA643		2SA696					-
T1S92	200500	23A043		25A696		2SC1247			
	2SC509 2SC509			-		2SC1247			<u> </u>
TIS92M	250509	00.4042		20,4000		2501247			-
T1S93		2SA643		2SA696					-
TIS93M		2SA643 2SC959		2SA696			2SC1124		
TIS94									ļ
T1S95		2SC959					2SC1124		
T1S96		2SC959 2SC959					2SC1124		
T1S97							2SC1124		
TIS98		2SC959		_			2SC1124		
TIS99							2501124		-
TISI00	2SC995						2SC1127		-
TISIOI	2SC995						2SC1127		
TISI05	2SC501					2SC971			
TISI08						2SC971	2001121		
TISI09		2SC959					2SC1124		
TISHO		2SC959					2SC1124		
TISIII		2SC959					2SC1124		
TISII2			2SA537	-	2SA546	000000			
TISI25				ļ		2SC829			
TISI26						2SC829			
TISI28			2SA530			2SA558			
TISI29			2SC684	ļ			2SC1128		
TISI33		2SC959					2SC1124		
TISI34		2SC959					2SC1124	-	
TISI35		2SC959					2SC1124		
TISI36	•	2SC959					2SC1124		
<u>TI</u> SI 37		2SA682·					2SA706		
TISI38		2SA682					2SA706		
100									
The second second				,					

		₹	≿		XIMU	W K	ATINGS	<u>'</u>			r –				L CHAR	Τ		fr			1	OUTLINE	NOTE
TYPE	USE	MATERI	POLALITY	Pc 25*C	Tj (*C)	Vos (V)	Vceo (V)	lc (mA)	los (μA)	vos(V)	min.	max.	Ic(mA)	hfe	hie (Q)	hre (×10)	hoe (μg)	†† *fαe **fαb (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO.	NOTE
				(mW)			30	3A	80	2	25	75	500					0.22			100	5/67	
T1156	AP	G	Р	25W	100	30		_	80	2	25	75	500					0.22				%7	
Γ1156L	AP	G	Р	25W	100	30	30	3A	125	20	20	60	1A			-		0.22			┝-	5/69	
T1159	AP	G	P	20W	100	40	4 0	3A 3A	125	30	20	60									+	%9 %9	
T1160	AP	G	P		100	60 80	80	3A		40	20	60				-		-			+	6/69	
T1161	AP	G	P		100	100	100	3A		50	20	60	_	_							-	%9	
T1162	AP	G	—	15W	200	80	60	IA		30	20	80					_	50			-	5	
T1486	APH APH		N	15W	200	80	60	IA		-	20	80	_			\vdash	_	50		_	_		
T1487 T11131	APH	-	N	80W	175	200		7.5A			30	120	_			-		7.5				61	
T11131	APH		N	80W	175	200		7.5A		-	15	60	_					7.5			+	61	
T11133	APH		N	80W	175	150		7.5A	-		30	120	_					7.5				61	
T11134	APH		N	80W	175	150		7.5A			15	60	_					7.5				61	
T11135	APH	_	N	80W	175	100		7.5A	100		30	120	_			t		7.5				61	
T11136	APH		N	80W	175	100		7.5A			15	60	2A			1		7.5				61	
T11151	APH		N	80W	175	200		7.5A			20	80			10.			7.5				61	
T11152	APH	_	N	80W	175	200		7.5A			10	40	5A					7.5				61	
T11153	APH	-	N	80W	175	150	_	7.5A			20	80						7.5		Ĺ		61	
T11154	APH	_	N	80W	175	150	75	7.5A			10	40	5A					7.5				61	
T11155	APH	_	N	80W	175	100	50	7.5A			20	80	5A					7.5				61	
T11156	APH	_	N	80W.	175	100	50	7.5A			10	40	5A					7.5			7.7	61	
T13027	AP	G	Р	106W	100	45		7A	ImA	30	40	250	3A									61	
T13028	AP	G	Р	106₩	100	60		7A	ImA	40	40	250	3A									3	
T13029	ΑP	G	P	106W	100	80		7A	ImA	50	40	250	3A								1	3	
T13030	AP	G	P	106W	100	100		7A	∤mA	60	40	250	3A									3	
T13031	AP	G	Р	106W	100	120		7A	ImA	70	40	250										3	
TIP29	APH	S	N	30W	150	40	40	IA.			15	75						3				5/319	
TIP29A	APH	S	N	30W	150	60	60	IΑ			15	75	_			<u> </u>		3				5/319	<u> </u>
TIP29B	APH	S	N	30W	150	80	80	IA			15	75						3			-	₹31 9	
TIP29C	APH	S	N	30W	150	100	100	IΑ			15	75				<u> </u>		3		ļ	-	5/319	
TIP30	APH	S	P	30W	150	40	40	IA			15	75		L-				3		-	-	5∕319	—
TIP30A	APH	_	Р	30W	150	60	60	IA			15	75		<u> </u>	-	-		3	<u> </u>		+	₹31 9 5√	-
TIP30B	APH	_	Р	30W	150	80	80	IA			15	75		├		-		3		-		5/31 9 5/31 9	_
TIP30C	APH	_	Р	30W	150	100	100	1A			15	75		_	-	_	-			-		7319 5/327	
TIP31	APH		N	40W	150	40	40	3A			10	50	_		-	-		3	<u> </u>	-		7327 5/327	<u> </u>
TIP31A	APH	-	N	40W	150	60	60	3A		_	10	50	_	-	-	+	<u> </u>	3	1		+	7321 5/321	-
TIP31B	APH	_	N	40W	150	80	80				10	50	_		-	╁┈		3		-	+	7327 5/327	-
TIP31C	APH	-	N	40W	150	100	100	3A	_	<u> </u>	10	50	_	-				3	_		+	5/32 7	
TIP32	APH		P	40W	150		40	3A	_	-	10	50		<u> </u>	+	+	-	3		+	+	5/32 7 5/32 7	
TIP32A	APH		P	40W	150		60	3A	-	1	10	50		-	+	+-		3		-	+	5/327 5/327	
TIP32B	APH	_	P	40W	150	_	80	_	ļ.,	-	10	50		\vdash	+-	+	+	3	+	+	+	5/327	\vdash
TIP32C	APH	-	P	40W	150	-	100	3A 10A	 		20	100	_	\vdash	+	+	\vdash	3	+-		+	335	_
TIP33	APH	-	N	80W	150	_	60	IOA	-	-	20	100	_	\vdash	+	+	1	3	1		+	5/335	<u> </u>
TIP33A TIP33B	APH	_	N	80W	150	_	80	-	 		20	100		\vdash	+	+	\vdash	3	_		+	5/335	
TIP33B	APF	-	N	80W	150	_	100	_	-		20	100	_	1	_	+		3			+	5/335	
TIP33C	APH	-	P	80W	150	_	_	_	+	+	20	100			+	+	+-	3		†	+	5/33.5	
TIP34A	API	-	-	80W	150		60	_		+	20	100		+	+	+	1	3				5/335	
TIP34A	APF	_	P	80W	150	_	80	-	+	\vdash	20	100		t	 	\vdash		3				5/335	
TIP34B	APH	_	F	80W	150	_	_	_	\vdash		20			\vdash	1	\vdash		3			-	5/335	
TIP34C	APF	-	-	125W	150	_	40		\vdash	+-	10	_				+		3				5/343	
TIP35	APH		_	125W	150				\vdash	\vdash	10	50		+	1	+		3		\vdash		5/343	
TIP35A	API	_	-	_	150	_	80	-	+		10	50			1	+		3				5/343	
TIP35C	APH	1		125W	150	_	-	-		1	10	_				\top		3				5/343	
TIP36	AP	-	P	125W	150	_	_	_	\vdash	Ť.	10	_		T		T		3				5/343	
TIP36A	API	_	_		150	_	_	-	+	+	10	_	_	\vdash	_	+		3		1		5/343	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
T1156		2SB251	2SB337		2SB449				- "0
T1156L		2SB251	2SB337		2SB449				
T1159		2SB251A	2SB337	-	2SB449			i.	
T1160		2SB251A	2SB340		2SB449				
T1161		2SB252	2SB340						
T1162		2SB252A	2SB340						
T1486		2SC1161			2SC1398				
T1487		2SC1161			2SC1398				X.,
TIII3I	2SC1079					2SC1229	2SC807		
T11132	2SC1079					2SC1229	2SC807		
T11133	2SC1079					2SC1229	2SC807		
T11134	2SC1079					2SC1229	2SC807		
T11135	2SC1079					2SC1229	2SC807		201
T11136	2SC1079					2SC1229	2SC807		
T11151	2SC1195					2SC1229	2SC807		
T11152	2SC1195					2SC1229	2SC807		-
TH153	2SC1079					2SC1229	2SC807		
T11154	2SC1079					2SC1229	2SC807		
T11155	2SC1079					2SC1229	2SC807	_	
T11156	2SC1079					2SC1229	2SC807		7
T13027	-	2SA650					2SB520		-700
T13028		2SA650					2SB520		
T13029		2SA650					2SB520		
TI3030	-	2SA650					2SB520		
TI3031		2SA650					2SB520		
TIP29	2SD103	2SD217			2SD226B		200020		
TIP29A	250103	2SD217			LOBELUD				
TIP29B	2SD103	2SD217							
TIP29C	2SD102	2SD217							
TIP30	2SB503	2SB506						- 1	_
TIP30A	2SB503	2SB506							-
TIP30B	2SB502	2SB506						-	
TIP30C	2SB502	2SB506		-					
TIP3I	2SD302	20000					2SD316		
TIP3IA	2SD111						2SD316		
TIP3IB	2SD111	,					2SD316		9
TIP31C	2SDIII						2SD316		
TIP32	2SA679						2SB518		
TIP32A	2SA679 2SA679			12.01			2SB518		
TIP32B	2SA679 2SA679				-		2SB518		
TIP32B	2SA679 2SA679			·			2SB518 2SB518		
TIP32C	Z3A0/9		2SC1343			2501220	230310	,	-
_	-			-		2SC1229			-
TIP33A			2SC1343			2SC1229			<u> </u>
TIP33B			2SC1343			2SC1229		-	-
TIP33C			2SC1343			2SC1229	000510		
TIP34	2SA679						2SB519	-	
TIP34A	2SA679					-	2SB519		
TIP34B	2SA679	_		-			2SB519	-	-
TIP34C	2SA679						2SB519		
TIP35	2SD114					2SD250			
TIP35A	2SD114	A				2SD250			
TIP35B	2SD113					2SD250			
TIP35C	2SD113					2SD250			
TIP36	I Self E								
TIP36A									

		7	_	M.	UMIXA	M R	ATING	\$					EL	ECTRICA	L CHAR	ACTER	STICS					OUTLINE	1
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	VCEO	lc .	Foe	10		hre		hfe	hie	hre	hae	fr *lae	NF	Cob	Coxrbb	TO.	NOTE
			匚	(mW)	(°C)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	lc(mA)		(Q)	(×10)	(µ3)	**fab (MHz)	(dB)	(pF)	(ps)	100	
TIP36B	APP	S	P	125 W	150	80	80	25A			10	50	15A					3			-	%13 5/	
TIP36C	APP	S	P	125 W	150	100	100	25A			10	50	15A					3			ļ.,	%43 5/	
TIP41	APP	S	N	65W	150	40	40	6A		,	15	75	3A			ļ		3				5/351	
TIP41A	AHP	S	N	65W	150	60	60	6A			15	75 75	3A 3A					3			-	5/351 5/351	
TIP4IB	AHP	S	N	65W	150	80	80	6A				_				ļ	ļ	_			-	7951 5/351	
TIP4IC TIP42	APH	S	N P	65W	150 150	100	100	6A 6A			15	75 75	3A 3A					3		<u> </u>		7351 5 351	
TIP42A	APH	S	F	65W	150	60	60	6A			15	75	3A					3	_		-	7351 5/351	
TIP42B	APH	Ś	P	65W	150	80	80	6A			15	75						3			-	5/351	
TIP42C	APH	S	P	65W	150	100	100	6A			15	75	3A					3			+	5/351	
T1P47	AP	S	N	40W	150	350	250	IA			30	_	300					10		_	+	5/359	
TIP48	AP	S	N	40W	150	400	300	IA			30	150	_					10			_	5/359	
TIP49	AP	s	N	40W	150	450	350	IA			30	150	300					10				3/359	
TIP50	AP	s	N	40W	150	500	400	IA			30	150	300					10			1	3/359	
TIP51	AP	S	N	100W	150	350	250	3A			30	150	300					2.5				5/363	
TIP52	AP	S	N	100W	150	400	300	3A	_		30	150	_			†		2.5				5/363	
TIP53	AP	s	N	100W	150	450	350	3A			30	150	300		_	\vdash		2.5				5/363	
TIP54	AP	s	N	100W	150	500	400	3A			30	150	300		_			2.5	_			5/363	
TIPIIO	AP	s	N	50W	150	60	60	2A	lmA	60	1000		1A									5/367	OARLINGT
TIPIII	AP	s	N	50W	150	80	80	2A	ImA	80	1000		IA						_			5/367	DARLINGT
TIP112	AP	S	N	50W	150	100	100	2A	ImA	100	1000		1A									3/367	DARLING"
TIP115	AP	S	Р	50W	150	60	60	2A	ImA	60	1000		IA									5/387	DARLINGT
TIPI16	AP	s	P	50W	150	80	80	2A	ImA	80	1000		ΙÀ									5/367	DARLING
TIP117	AP	S	P	50W	150	100	100	2A	ImA	100	1000		ΙA							1		3/367	DARLING
TIPI20	AP	S	N	65W	150	60	60	5A	200	60	1000		3A									₹ 375	DARLINGT
TIPI2I	AP	S	N	65W	150	80	80	5A	200	80	1000		3A								*	5/375	DARLINGT
TIPI22	AP	S	N	65W	150	100	100	5A	200	100	1000		3A									3/375	DARLINGT
TIP125	AP	S	Ρ	65W	150	60	60	5A	200	60	1000		3A									1/315	DARLINGT
TIPI26	AP	S	Ρ	65W	150	80	80	5A	200	80	1000		3A									5 575	DARLINGT
TIP127	AP	S	Р	65W	150	100	100	5A	200	100	1000		3A									5/375	DARLINGT
TIPI40	AP	S	N	125W	150	60	60	10A	ImA	60	1000		5A									5/383	DARLINGT
TIPI4I	AP	S	N	125W	150	80	80	IOA	ImA	80	1000		5A								ļ	5/383	DARLING
TIP142	AP	S	N	125W	150	100	100	10A	ImA	100	1000		5A							_	-	5/383	DARLING
TIPI45	AP	S	Р	125W	150	60	60	IOA	ImA	60	1000		5A									5/383	DARLINGT
TIPI46	AP	S	Р	125W	150	80	80	10A	1mA	80	1000		5A								-	5/383	DARLINGT
TIP147	AP	S	Р	125W	150	100	100	10A	ImA	100	1000		5A			_					-	5/383	DARLING
TIP501	APH	S	N	6W	200	40	40	3A	10	40	25	180	IA			_		60			-	39	
TIP502	APH	S	N	6W	200	60	60	3A	10	60	25	180	IA	ļ		-		60 70			-	39 66	
TIP503	APH	S	N	20W	200	130	120	2A	-		40	200	IA			-		70			+	66	
TIP504 TIP505	APH	S	N	20W	200	160	150	2A 2A			40	200			-	\vdash		70		-	-	59	_
TIP505	APH	S	N	20W	200	160	150	2A 2A			40	200	IA			 		70	-			59	
TIP506	APH	S	P	20W	200	150	150	2A	-		30	120		_		<u> </u>	<u> </u>	50			-	59	
TIP508	APH	S	P	4W	200	150	150	2A		-	30	120						50			+	39	
TIP509	APH	S	N	30W	200	130	120	4A			40	200	_		_			70				3	
TIP510	APH	S	N	30W	200	160	150	4A	-	-	40	200						70		 	+	3	
TIP511	APH	S	N	30W	200	130	120	4A			40	200						70			1	61	
TIP512	APH	S	N	30W	200	160	150	4A			40	200	_					70		 	1	61	
TIP513	APH	S	P	30W	200	150	150	5A			30		2.5A					40			_	59	
TIP514	APH	S	P	20W	200	150	150	5A	_		30	150				\vdash		40		1		66	
TIP515	APH	S	N	80W	200	130	120	12A	 		40	200	_					70			1	3	_
TIP516	APH	S	N	80W	200	160	150	12A			40	200						70			\vdash	3	
TIP517	APH	S	N	80W	200	130	120	12A			40	200	_			<u> </u>		70			†	61	_
TIP518	APH	s	N	80W	200	160	150	12A			40	200	6A					70				61	
TIP519	APH		P	50W	200	150	150	8A			30	150	4A			1		40				3	

ТҮРЕ	TOSHIBA	NEC	HiTACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
TIP36B	_								
TIP36C									1
TIP4I	2SC793		2SC681		_			,	_
TIP41A	2SC793		2SC681						
TIP41B	2SC793		2SC681		4				
TIP41C	2SC793	_	2SC681						
TIP42	2SA658	2SA627							
TIP42A	2SA658	2SA627							
TIP42B	2SA657	2SA627							
TIP42C	2SA657	2SA627							
TIP47	2SC1005			_			2SC1348	_	
TIP48	2SC1005					_	2SC1348		
TIP49	2SC1005						2SC1348		
TIP50	2SC1005						2SC1348		
TIP51							2SC1348		
TIP52						_	2SC1348		
TIP53			٠.			12	2SC1348		
TIP54							2SC1348		
TIPI 10	2SD107						2SD88		
TIPITI	2SD107						2SD88		
TIP112	2SD111						2SD88		
TIPI 15	2SB530	2SB506		-					
TIPI16	2SB530	2SB506							
TIP117	2SB530	2SB506							
TIP120	2SDIII						2SD88		
TIPI21	2SD111						2SD88		
TIP122	2SDIII						2SD88	20	
TIP125	2SB530	2SB506					2SB519		
TIP126	2SB530	2SB506					2SB519		
TIP127	2SB530	2SB506					2SB519		
TIPI40	2SD113					2SD196			
TIPI4I	2SD113					2SD196			'
TIP142	2SD113					2SD196			
TIP145	·		_				2SB520		
TIP146	_						2SB520		
TIPI47							2SB520		
TIP501		2SC1306	2SC1061		2SC697				
TIP502		2SC1306	2SC1061		2SC697				- 11111
TIP503				2SC767	2SC840A				
TIP504				2SC767	2SC840A				
TIP505				2SC767	2SC840A				
TIP506		004040		2S0767	2SC840A				<u> </u>
TIP507		2SA649			,	_			
TIP508									
TIP509	2SC1433		2SC681						igwdow
TIP510	2SC1433		2SC681						
TIP511	2SC1433		2SC681						
TIP512	2SC1433		2SC681						
TIP513	2SA656								
TIP514	2SA656	, .	2001212						
TIP515	2SC1079		2SC1343						
TIP516	2SC1079		2SC1343						
TIP517	2SC1079		2SC1343						
TIP518	2SC1079		2SC1343						vi.
TIP519	2SA656								

		A	اع	739	XIMUN	R/	ATINGS			_			EL	ECINICA	L CHAR	-CIERI	31103	f. 1				OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C	Tj (°C)	Vos (V)	VCEO (V)	Ic (mA)	1080	_		hfe		hfe	hie (Ω)	hre (×10)	hoe (µහි)	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	то.	NOTE
Lane				(mW)	100	1			(μA)	Vos(V)	min.	max.	Ic(mA)		(52)	(>10)	(μο)		(00)	(1)	(pa)	CI	
TP520	APH	_	P	50W	_	150	150		-		30	150	4A			-		40				61	
TIP521	APH	S	P	20W	200	200	200	2A			20	100	IA					50			_	59	
IP522	APH	S	P	4W			200				20		IA					50				39	
TIP523	APH	S	P	30W	200	200	200	5A			20		2.5A					40				59	
TIP524	APH	S	P	6W	200	200	200	5A			20		2.5A					40				39	
TIP525	APH	S	N	60W	200	250	200	5A			30		2.5A					40			<u> </u>	3	
TIP526	APH	S	Ν	60W	200	250	200	5A			30	150	2.5A					40				61	
TIP527	APH	S	Р	60W	200	200	200	8A			20	100	4A					40				3	
TIP528	APH	S	Р	60W	200	200	200	8A			20	100	4A					40				61	
TIP529	APH	S	N	67W	200	400	300	3A			25	125	1.5A					20				61	
TIP530	APH	S	N	20W	200	400	300	3A		11	25	125	1.5A					20				66	
TIP531	APH	S	N	150W	175	340	300	15A			20	120	7.5A					50				3	
TIP532	APH	S	N	150W	175	450	400	15A	,		20	120	7.5A					50				3	
T1P533	APH	S	N	150W	175	340	300	15A			20	120	7.5A					50				63	
TIP534	APH	-	N	150W	175	450	400	15A		7	20	120	7.5A					50				63	
TIP535	APH	_	N	100W	200	300					20	100	5A					10				3	
TIP536	APH		N	100W	200	400					20	100	5A			1		10				3	
TIP537	APH	S	N	100W	200	500	400	7.5A			20	100	5A					10				3	
TIP538	APH	_	N	125W	200	300	200	15A	BING		20		7.5A					10				3	
T1P539	APH		N	125W	200	400	300	15A			20	100	7.5A					10				3	
TIP540	APH	S	N	125W	200	500	400	15A	77707		20	100				_		10				3	
TIP541	APH	S	N	4W	200	50	45	2A	750	78	40	200		116				150			_	39	
TIP542	APH	S	N	40W	200	50	45	IOA	30		40	200						150		_		59	
TIP543	APH		N	40W	200	75	65	IOA	20.0	5	40		5A	17	15.00			120				59	
TIP544	APH		P	150W	200	100	100	6A	ImA	100	25		3A					1			+	3	7
TIP545	APH		P	150W	200	120	120	6A	ImA	120	20		3A		-	-		- 1	100			3	
TIP546	APH		P	150W	200	140	140	6A	ImA	140	15		3A			1		1				3	
TIP640	AP	S	-	175W	200	60	60	10A	ImA	60	1000		5A	-	+-			-		1		3	DARLINGTO
		S	N	175W	200	80	80	10A	ImA	80	1000		5A		-	-			2.70		1	3	DARLINGTO
TIP641 TIP642	AP	S	N	175W	200	100	100	IOA	ImA	100	1000	_	5A			+						3	DARLINGT
		_	_		200	60	60	10A	ImA	60	1000	-	5A	-	\vdash	\vdash				_	_	3	DARLINGT
TIP645 TIP646	AP AP	S	P	175W	200	80	80	IOA	ImA	80	1000	_	5A	-	+	+					+	3	DARLINGT
A STATE OF THE STA			P	175W	200	100	100	10A	ImA	100	1000	_	5A	1	-	+-					+	3	DARLINGT
TIP647	AP	S	P	90W	150	100	70	15A	TIIIA	100	20		4A	-		+				-	+	5/41	-
TIP2955	APH	_	_			100	70	15A		_	20		4A	-		+					+	5/441	
T1P3055	<u> </u>	٥	N	90W	150	100	70	13A			20	70	44			+		-			+	/441	
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	-		<u> </u>	_		-	-						-			+			-		+		
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
TIP520	2SA656					7	_		
TIP521	2SC739								
TIP522					34				-
TIP523	-					_			
TIP524									
TIP525	2SC558			-	2SC901A				
TIP526	2SC558				2SC901A				
TIP527									1
TIP528							30		
TIP529	2SC1005	2SC1100					2SC1086		
T1P530	2SC1005	2SC1100					200,000		
TIP531	2SC1434	2301100				2SC1300			_
TIP532	2SC1434					2SC1300			
TIP533				_		2SC1300			_
TIP533	2501434					2SC1300		-	
	2501434		-			2301300	2SC807		
TIP535							2SC807 2SC807		
TIP536									
TIP537							2SC807		
TIP538	2SC1434								
TIP539	2SC1434								
TIP540	2SC1434								
TIP541	2SC549	2SC799		2SC1239		2SC866			1
.TIP542				2SC889					
TIP543				2SC889					
TIP544							1	5-2	
TIP545						A 80 %			
TIP546									11
TIP640						2SC1301			
TIP641						2SC1301		8	
TIP642						2SC1301			
TIP645									
TIP646									
TIP647			*						
TIP2955	2SA679				İ		2SB520		
TIP3055	2SC1079					2SC1301			
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									-
				-					



MOTOROLA

		-	-	МА	XIMUM	RA	TINGS						ELI	CTRICAL	L CHAR	CTERI	STICS		_		-		-
TYPE	USE	TERIA	POLALITY	Pc 25°C	Tj	Voa	Vœ	tc	to	280		hre		hfe	hie	hre	hoe	fr	NF	Cob	CoXrbb	OUTLINE	NOTE
	"	MAT	POL	25°C (m₩)	(7)	(V)	(V)	(mA)	(µA)	V08(V)	min.	max.	Ic(mA)		(Ω)	(×10)		* fae * # fao (MHz)	(dB)	(pF)	(ps)	TO-	11072
2N174	SP	G	Р	100W	95	80	70	15A	2 mA	80	25	50	5 A					10K*				36	
2N176	AH	G	P	90W	80	40	30	3 A	50	2	25	T	500	45	7			7K*				3	
2N178	Α	G	Р	40 W	90	30	30	3 A	50	2	15	45	500	30	8			5K*				3	
2N242	A	G	Р	20 W	85	45	45	5 A	5 mA	- 1	30	120	500					5K*				3	
2N277	AP	G	Р	70W	95	40	40	15A	100	2	35	70	5 A					10K*				36	
2N297A	AP	G	Р	35W	95	60	50	5 A	3 mA	60	40	100	500					5K*				3	
2N319	Α	G	Р	225	85	25	20	500	16	25	23	42	20					1 **		35		5	
2N322	Α	G	Р	140	60	18	18	500	16	16	34	65	20					1 **		35		5	
2N331	Α	G	Р	200	71	30			10	30	30	70	1	30					1 KHZ 20	50		5	
2N350A	AP	G	Р	90W	100	-50	40		50	2	20	60	700	30	5			5K*				3	
2N375	AP	G	Р	58W	95	80	60	3 A	3 mA	60	35	90	I A					5K*				3	
2N378	SP	G	Р	50 W	100	20		5 A	500	25	40	80	2 A					5K*				3	
2N381	Α	G	Р	200	100	50	25	400	6	25	35	65	20	35	300	6.6	420	3 **	1 KHZ 6	20		5	
2N398	SP	G	Р	50	55	105	105	100	12	105	20		5					**			L	5	
2N404	S	G	Р	150	85	25	<u></u>	150	0.8	12	30		12	135	3.6K	8	50			8		5	
2N441	AP	G	Р	150W	95	40	40	10 A	2 nA	40	20	40	5 A					10K*		<u> </u>		36	
2N456A	AP	G	Р	150W	<u> </u>	40	40	7 A	500	20	30	90	5 A		28			0.2				3	
2N460	Α	G	Р	200	100	45		400	15	45	16	32		17				1.2**	1 KHZ	20		5	
2N464	Α	G	Р	∤50	85	45	40	500	6	20				14	900				1 KHZ 22			5	
2N499	AH	G	Р	30	85	30	18	50	10	15				20				120	200 MHZ 7.5	2.5	5	ı	
2N508A	Α	G	Р	100	30	30		200	7	25	100	200	20	75				2.5**	1 KHZ 5	35		5	
2N524	Α	G	Р	225	100	45	30	500	10	30	25	42	20	18				0.8**	I KHZ I 5	5		5	
2N559	Α	G	Р	150	100	15	15	50	5	5	25	150	10					300		6		18	
2N650	Α	G	Р	200	100	45	30	500	3	30	30		10	30		·		1.5**	1 KHZ 5	10		5	
2N653	Α	G	Р	200	100	30	25	250	5	25	20		∮0	30	750			1.5**	1 KHZ 10	10		5	
2N656	Α	S	N	4 W	200	60	60		10	30	30	90	200	L	500							5	·
2N665	SP	G	Р	35 W	95	80	40	3 A	50	2	40	80	500					20K*			L	3	
2N696	S	S	Ν	600	175	60	40		. 1	30	20	60	150					40		35		5	
2N699	S	S	N	600	175	120	80		. 2	60	40	120	150	35				50		20		39	
2N700	AH	G	Р	75	100	25	20	50	0.4	6	1.5		2	4					70MHZ 6	1.1		17	
2N702	SH	S	N	300	175	25	25	50	0.5	10	20	60	10					70		3	L.,	18	
2N705	SH	G	Р	300	100	15	15	50	0.2	5	25		10	9				300**		5		18	
2N706	SH	S	N	300	175	25	20		0.005	15	20		10	2				400.		4.5		18	
2N707	AHP	S	Ν	300	175	56	28		0.005	15	9		10					350		4	80	18	
2N708	SH	S	N	360	200	40	20		0.005	20	30	120	10					450		3		18	
2N 711	SH	G	Р	150	100	12	12	50	0.2	5	20	250	10	1.5						6		18	
2N718	АН	S	N	400	175	60	40		0.001	30	40	120	150	15					1 1/1/7	5		18	
2N718A	AH	S	N	400	175	60	40		0.001	60	40	120	150	30				300	1 KHZ 12	4		18	
2N720	AH	S	N	400	175	120	80		10 nA	90	40	120	150	100				50		15		18	
2N721	АН	S	Р	400	200	50	50		_ !	30	20	45	150	50			`	50		45		18	
2N722	АН	S	Р	400	175	50	50	500	ı	30	30	40	150	25				60		45		18	
2N726	Α	S	Р	300	175	25	20	50	- !	25	15	45	10	90				140		5		18	
2N731	Α	S	N	500	175	60	40	ΙA	- 1	30	-40	120	150					25		35		18	
2N735	Α	S	N	500	175	80	60	ΙA	- 1	40	30	100	5		1.5K	\Box			201	10		18	
2N741	АН	G	Р	150	100	15	15	100	0.2	6	10		5	20				360	30MHZ	6		18	
2N743	SH	S	N		200	20	12	200	- 1	20	20	60	10					282		5		18	
2N744	SH	S	N	300	175	20	12	200		\Box	40	120	10	4.5								18	
2N827	SH	G	Р	150	100	20	20	100	0.5	15	100		10	3.5		_				4		18	
2N828	SH	G	P	150	100	15	15	200	0.4	6	25		10	4				400		3.5		18	
2N828A	SH	G	Р	150	100	15	15	200	4	6	25		10	4				400		2.2		18	
2N834	SH	S	N	300	175	40	30	200	0.5	20	25		10					350		4		18	
2N838	SH	G	Р	150	100	30	30	100	- 1	15	30		10	4.5						2		18	
2N840	AH	S	N	300	175	45	45	1 A	- 1	45	30	100	10	90	500		1.2	1.5		15		18	
2N869	AH	S	Р	-	200	25	18		10.0	15	20	120	10	3						3		18	
2N869A	S	S	Р	360	200	18	18	200	25	15	40	120	30	∟ Т	7	T		400		6	T	18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N174							2 SB 520		
2N176									
2N178			2SB340		2SB126	2SB151			
2N242	2SB 465	_						2SB 342	
2N277							2 SB 520		
2N297A	2 SB 366	2SB252	2SB 442		2SB310				
2N319	2SB 461	2SB 326	2SB370A	2 SB 451		2SB 427			
2N322	2SB 364		2 SB 156 A	2 SB 457	2SB370				
2N331									
2N350A									
2N375									
2N378	2SB 531	2 SB 246	2 SB 337		2SB 232	2SB318			-
2N381	2SA 128			·					
2N398									
2N404	2SB 439			2SB136					
2N441			2SB 337	×					
2N456A									
2N460		2SB 224							
2N464									ļ
2N499									ļ
2N508A	2SB 51								ļ
2N524		2SB224				2 SB 427			
2N559		2SA 405			2SA774A				
2N650		2SB 224				2SB 427		100000	
2N653					2SB 280		2SB 53		
2N656			2SD 120			7	1.6		
2N665									ļ
2N696	2SC1166	2SC 729				2SC 218	3		
2N699	2SC 500					2SC 88		2SC 66	
2N700						2SA 139			
2N702	2SC 394	2SC 925	2SC717			2SC 724	2SC1126		
2N705									
2N706		2SC1044			2SC 583				
2N707		2SC1044			2SC 583				170
2N708							_		
2N711	2SA75	2SA 167							
2N718	·			<u> </u>					
2N718A									
2N720									-
2N721	2SA594				2SA 720	2SA 580	,		
2N722	2SA594				2SA 720	2SA 580			
2N726							1		
2N731	2 SC 486	2SC959			2SC 696			2SC 873	
2N735	2SC 485	2SC959			2SC 696	_		2SC 873	
2N741			2SA 211				1		
2N743	2 S C 395 A	2SC639	2SC689H		2SC 456	2SC 554			-
2N744	2SC 395A	2SC639	2SC 689H		2SC 456		-		-
2N827		2SA206				2SA556	1.	_	-
2N828	2SA 65	2SA206				2SA556	1		
2N828A	2SA 65	2SA206				2SA556			
2N834		2SC1216'	2SC321H	2\$C733		2SC 3			
2N838						2SA558			
2N840									
2N869									
2N869A						1			

		AL.	≥	M/	AXIMUN	l RA	TINGS						ELI	CTRICA	CHARA	ACTERI	STICS						
TYPE	USE	MATERI	POLALITY	Pc 25°C	τ _j (τ)	Voa (V)	V 080	1c		280		hre		hfe	hie (Ω)	hre (×10)	hoe (μδ)	fr *fae **fap	NF (5)	Cob	Coxrbb	OUTLINE TO:	NOTE
2N910	-	_		(m₩)	_	-	(V)	(mA)	(μA)	Vos(V)	min.	max.	ic(mA)			(×10)		(MHz)	(d8)	(pF)	(ps)		
2N910 2N914	SH	S	N	500 360	200	100	80	150	25 nA	75	75	120	10		1.8K		100	60	I KHZ I2	15		18	-
2N915	AH	S	N	360	200	40 70	20	150	0.025 10 nA	60	30	120	10	2.5	C 1/		7.5	300		3.5		18	
2N915	AH	S	N	360	200	45	50 25		10114	30	50	200	10	2.5	6 K		75 75	1		6	-	18	
2N918	AH	S	N	200	200	30	15	50	10 nA	_	20	200	3	200	0 1		13		60MHZ	1.7	25	72	
2N929	A	S	N	600	175	45	45	30	10 nA	45	40	120	10μA	350				30	10 KHZ	8	23	18	
2N960	SH	G	P	150	100	15	15	30	0.4	6	20	120	10,41	330				460	4	2.2		18	
2N963	SH	G	P	150	100	12	12		5	6	20		10					300		5	\vdash	18	
2N964A	SH	G	P	150	100	15	15		0.4	6	40	 	10	4.6				460		2.7		18	
2N968	SH	G	Р	150	100	15	15		3	6	17		10					320		4	\vdash	18	
2N978	AH	S	Р	330	150	30	20	600	5	10	15	60	150	2						45		18	
2N985	SH	G	Р	150	100	15	7	200	3	5	40		10				_			6		18	
2N996	AH	S	Р	360	200	15	12	200	5 nA	10	35		20					100		10	 	18	
2N998	AL	S	N	500	200	100	60	500	0.01	90				1000					I KHZ 6	30		72	DARLINGTO
2N1008	Α	G	Р	300	85	20	15	300	5	10				40	200							5	
2N1011	AP	G	Р	35W	95	80	80	5 A	200	2	30	75	3 A					5 K*				3	
2N1021	AP	G	Р	50 W	95	100	100	5 A	500	50	23	70	I A		28			0.2				3	
2N1038	AP	G	Ρ	20W	95	40	40	3 A	125	20	20	60	I A	72								C180	
2N1042	AP	G	Р	20W	100	40	40	3.5A	125	20	20	60	3 A	100								C184	
2N1073	AP	G	Р		110	40	40	10A	l mA	25	20	60	5 A	15								41	_
2N1120	AP	G	Р	45W	95	80	70	15A	20 mA	30	20	50	10A					3 K *				41	
2N1131	S	S	Р	600	175	50	35	600		30	20	45	150	15								5	
2N1141	AH	G	P	750	100	35		100	0.5	15	10		10	18				1000	4.5 MHZ 3		23	5	
2N1162	SP	G	Р	90W	100	50	35		125	2	15	65	25					4 K*				3	
2N1185	Α	G	P	200	100	45	30	500	3	30	130	170	10	260					I KHZ 5			5	
2N1189	Α	G	Р	200	100	45	30	500	3	30	60		10					3.5*	I KHZ 5			5	• •
2N1191	A	G	Р	200	100	40	25	200	15	25	20	80	10	40				1.5*	1 XH2 10	20		5	
2N1204	SH	G	Р	200	100	20	15	500	0.4	12	15		400	2				- 1		3.5		5	
2N1408	S	G	Р	150	100	50	50	200	7	5	10			10								5	
2N1412	SP	G	Р	70W	95	100	65	15A	200	2	25	50	5 A					5 K*				36	
2N1413	S	G	Р	200	85	35	25	500	12	30	25	42	20	20				0.8**				5	
2N1529	AP	G	Р	90 W	100	40	30	5 A	0.2	2	20	40	3 A									3	
2N1539	AP	G	P P	90W	100	40	30	5 A	0.2	2	50	100	3 A					4 K				3	
2N1549	AP	G	P	90W 250	100	40	30	15A	0.2	2	10	30	10A	10				1 K*				3	
2N1561 2N1651	AH	G	P	100W	110	25 60	15	250	15	10	25			10				500		7		107	
2N1705	AP	G	P	200	100	18	60 12	25 A 400	200	10	35	140	10A	20				- 60	I KHZ	20		41	
2N1708	SH	S	N	1 W	175	25	12	200	0.025	15	20		10	110		6.9		3 ** 200	6	20 6		5 46	
2N1724	AP	S	N	50W	175	120	80	5 A	100	3	20	00	2 A	1.6				200		260	_	6	
2N1751	AP	G	P	106	110	80	80	25 A	200	2	30	90	20 A	20				1.5		200		3	
2N1893	AH	S	N	800	200	120	100	500	0.01	90	40	120	150	30			`	50		15	-	5	
2N1924	A	G	P	225	100	60	40	500	10	45	34	65	20	30	700	2	15	1 * *		30		5	
2N1959	SH	s	N	600	175	60	40	500	0.5	30	40	120	150			-	.,	100		18		5	
2N1970	AP	G	Р	150W	100	100	50	15A	4 mA	100	17	40	5 A					5 K*				36	
2N1983	Α	_	N	600	150	50	25	I A	5	30				70	2 K			40	-	45		5	
2N1990	SP	\rightarrow	N	600	150	100		ΙA			20		30	-					$\neg \neg$			39	-
2N2042	Α	\rightarrow	Р	200	100	105	105	200	25	105	20	50	5	20				0.5*		25		5	
2N2060	Α	S	N	500	200	100	80	500	0.002	80	50	150	10	50	1000		4	50	I KHZ 8	15		C32C	DUAL N.
2N2075	AP	G	Р	170W	110	80	80	15A	0.2	2	20	40	5 A			\neg		5 K*				36	
2N2137	AP	G	Р	62.5W	100	30	30		0.018	2	30	60	500					20K*				3	
2N2152	AP	G	Р	170W	110	45	45	30 A	0.08	2	50	100	5 A					2.7K				36	
2N2192	SH	S	N	800	200	60	40	ΙA	0.01	30	100	300	150	2.5						20		5	
2N2212	AHP	G	Р	100W	110	120	120	10A	200	2	50	120	5 A	15		\neg						4	
2N2218	SH	S	N	800	175	60	30	800	0.0,1	50	40	120	150	30	ΙK	5	3	250	I KHZ	8	150	5	
2N2224	SH	s	N	800	175	65	40	500	0.01	50	35	115	10					250		8		5	

	_								
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N910	2 SC 485	2SC 959			2SC 696		-		
2N914	200 405	20000			_				
2N915					_				
2N916	2SC 495	2SC 881		2SC 1210	2SC 696			-	-
2N918	2SC 372	2SC 900	2SC 458	2SC 1312	2SC 644				
2N929		2SC 1217	2SC 54C		61				
2N960		2SA 405			2SA 774				
2N963		2SA 405			2SA 774		_		
2N964A		2SA 405			2SA 774				
2N968		2SA 405			2SA 774				
2N978									
2N985		2SA 406			2SA 415				
2N996									
2N998									
2N1008	2 SB 364	2SB 327	2SB 496					2SB 408	
2N1011		2SB 252 A	2SB 361		2SB 282	2SB 151		2SB 406	
2N1021		200 20271	2SB 362					2SB410	
2N1038					2SB 513			2SB 507	
2N1042	-				2SB 513			2 SB 507	
2N1073									
2N1120			2SB334	2 SB 479	-			2SB 410	
2N1131	2SA 505		2SA 673 A	2SA 697	2SA 731				
2N1141	2SA 509	2SA 707	20110707	2SA 696					
2N1162	23A 303	23/101		20// 000				7.1	
2N1185	-	2SB 226			2 SB 324				
2N1189		2SB 226	-		2 SB 324	_			
2N1191		2SB 226			2 SB 324		-		
2N1204	2SA 562	2SA 723	2SA673	2SA 695					
2N1408	2 SB 292 A	23A 123	2SB 77 A	207. 000			1		
	23B 23ZK		23B // K		_				
2N1412 2N1413		2SB 226	2SB370 AH		2 SB 324	2SB 427			1
		238220	23B3/0AH		238324	208427	_		
2 N1529			_						
2N1539							 		
2N1549		-	 	-			2SA 704		
2N1561				-					
2N1651	204 502	004700	2SA 673	2SA 695	2 SA 720	-			1
2N1705	2SA 562	2SA723	23A 0/3	2SA 695 2SC 730	2SC 821		+		+
2N1708	2SC 991	2SC319	2SD126	230 130	2 SD 189 A	2SD 175	2SD 88		+
2N1724	2SD 10		230126		200103 A	200113	20000		+
2N1751		000 500	 	-	+	-	+		
2N1893		2SC 590	 	2SA 697	2SA 546		+	+	+
2N1924	2SA 497	2SA 606	 	2 SA 69/	23A 340		2SC1124		+
2N1959	2SC 1382			-	+,	-	2301124	-	+
2N1970	2SA 679	000.000	-		2501294			+	+
2N1983	2SC1382	2 SC 959			2SC 1384	-	-		+
2N1990	2SC 1382	2SC 959	-					+	+
2N2042		1	-		-		+	-	+
2N2060		1	_			 	2SB520		+
2N2075		ļ		<u> </u>	-		238520	+	+
2N2 f37	2SA 679		<u> </u>		-				+-
2N2152							-	11, 1,	
2N2192	2 SC 495	2SC 959			1			サンケン	-
2N2212	2SA679	2SA 650					+	2SA747	
2N2218	2SC 495	2 SC 959					+		+-
2N2224	2SC 495	2SC 959							

N NEW		=	>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	CHARA	CTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Voa	Vœ	Ic	lo	80		hre		hfe	hie	hre	hoe	fī *fa'e **fa0	NF	Cob	Coxitob	OUTLINE	NOTE
11		MA	POL	(mW)	(70)	(V)	(∀)	(mA)	(μ A)	V08(V)	min.	max.	Ic(mA)		(ℚ)	(×10)	(p 75)	*#faD (MHz)	(48)	(pF)	(ps)	TO.	
2N2242	SH	S	N	360	200	40	15	225	0.1	20	40	120	10				•	250		6		18	
2N2256	SH	S	N	300	175	7	7	100	3	6	17		10					320		4		18	
2N2273	AH	G	Р	100	001	25	15	100	10	12	20	150	ŧ	20					IBMHZ I2	3.5		18	
2N2288	AP	G	Р	60 W	110	40	40	10A	200	2	20	60	5 A	25								3	
2N2291	AP	G	Р	60W	110	40	30	IOA	200	2	50	120	5 A	50								3	
2N2330	SC	S	N	800	150	30	20	500	I nA	4.5	50	f	10					100		10		5	
2N2357	SP	G	Р	170W	110	60	30	50 A	200	2	30	90	20 A	20								41	
2N2368	SH	S	N	360	200	40	40		0.4	20	20	60	10					400		4		18	
2 N2369	SH	S	N	360	200	40	40		0.4	20	40	120	10	5						4		18	
2 N2369A	SH	S	N	360	200	40	40	200	30	20		120	10					500		4		18	
2 N2381	SH	G	Р	300	100	30	15	500	- 1	5	40		200					300		3.5		5	
2N2410	SH	S	N	800	200	60	30	800	0.3	30	30	120	10					200		-11		5	
2N2411	SH	S	Р	300	200	25	20	100	10 n A	25	20	60	10					140		5	-	18	
2N2415	AH	G	Р	75	100	15	10	20	-1	10	10	200	2	15				500	200 MHZ 2.4	0.9	8	72	
2N2453	AM	S	N	500	200	60	30	50	0.005	50	150	600	1	150	5 K	6	5	60		8		C32C	DUAL N
2N2476	SH	S	N	2 W	200	60	20		0.2	30	20		150					250		10		5	
2N2481	SH	S	N	1.2W	200	40	15				40	120	10	3	60					5		18	
2N2490	SP	G	Р	170W	110	70	60	15A	3 mA	40	20	40	5 A									36	
2N2501	SH	S	N	360	200	40	20				50	150	10	3.5				350		4		18	
2N2526	SHP	G	Р	85W	110	80	80	10A	3 mA	80	20	50	3 A	10								3	
2N2537	SH	S	N	800	200	60	30		0.25	40	50	150	150	2.5						8		5	
2N2604	AH	S	Р	400	200	60	45	30	i 0 n A	45	40		10µA	60	200			30	IOKHZ 4	6		46	
2N2635	SH	G	Р	150	100	30	12	100	13	25	45	30	50							2.5		18	
2N2639	AM	S	N	300	200	45	45	30	0.01	45	50	300	10µA	65				35	IOKHZ 4	8		C32C	DUAL 1
2N2652	AM	S	N	300	200	100	60	500	0.01	50	50	200	- 1	50	ΙK		4	60	I KEZ 8	15		C32C	DUAL N
2N2696	S	S	Р	360	200	25	25	500	25 n A	10	30	130	50	25	1500	26	1200			20		18	•
2N2708	АН	S	N	200	200	35	20	50	10 n A	15	30	200	2	30					200 MHZ 7.5	1.5	9	72	
2N2710	SH	S	N	360	200	40	20	500	30 n A	20	40		10					500		4		18	
2N2720	AM	\$	N	300	200	80	60	40	0.01	60	30	120	0.1	30				80	,	6	L	C32C	DUAL N
2N2722	AM	S	N	300	200	45	45	40	0.001	30	50	250	1µA	100				100	10KHZ 4	6		C32C	DUAL N
2N2723	AL	S	N	500	200	80	60	40	0.01		2 K	10K	10	1500				100	1 KHZ 10	10		72	DARLING
2 N2728	SHP	G	Р	170W	110	15	5	50 A			40	130	20 A					4.5K*				C7	
2 N2785	AL	S	N	500	175	60	40		0.05	30	2 K	20K	100	600				10		30		72	DARLING
2 N2800	SH	S	Р	800	200	50	35	800			30	90	150					120		25		5	
2 N2802	AM	S	Р	250	200	25	20	30	0.0	25	20	120	0.1	20				60	10 KHZ 4		-	C32C	DUAL F
2 N2832	SP	G	Р	85W	110	80	50	20 A	300	2	25	100	10A	2								3	
2 N2845	S	S	N	360	200	60	30		200	30	30	120	150					250	4401817	8		18	
2 N2857	AH	S	N	200	200	30	15	40	0.0	15	30	150	3	50		L		1000	450 MHZ 5.8	ļ	4	72	
2 N2894	S	S	Р	360	200	12	12	200	10	6	40	150	30			Щ		400	1457	6		18	
2 N2895	S	S	N	500	200	120	65	I A	0.002	60	40	120	150	50				120	1 KEZ 8	15		18	
2 N2903	AM	S	N	600	200	60	30	50	0.01	50	125	625	, 1	150	ΙK	6	5	60	1 KHZ 7	8		C32C	DUAL N
2 N2904	SH	S	Р	3 W	200	60	40	600	0.02	50	40	120	150					200		8		.5	
2 N2912	SP	G	Р	75W	110	15	6	25 A	10mA	15	75		10A					10	Wuy			C 8	
2 N2913	AM	S	N	300	200	45	45	30	0.0	45	_	240	10μA					60	1 KHZ . 2 200 MHZ	4		C32C	DUAL N
2 N2929	AH	G	Р	750	100	25	10	100	0.15	10	10	100	10		45			1100	200 MHZ 5.5		25	5	
2 N2944	\$C	S	Р	400	175	15	10	100	0.inA	15	80		1					15		3.2		46	
2 N2947	AP	S	N	25 W	175	60	60	1.5A	1	50	2.5	55	400							60		3	
2 N2949	AP	S	N	6 W	175	60	60	700	0.1	50	5	100	40							20		107	
2 N2951	AP	S	N	3 W	175	60	60	250	0.1	50	20	150	10				_			8		5	
2 N2955	SH	G	Р	150	100	40		100			20	60	50							2.5		18	
2 N2958	SH	S	N	3 W	200	60	20	600	0.025	50	40	120	150					250		8		5	
2 N3009	SH	S	N	360	200	40	15	200			30	120	30					350		5		52	
2 N3010	SH	S	N	300	200	15	6	50			25	125	10					600		3		18	
2 N30 I I	SH	S	N	360	200	30	12	200			30	120	10					400		4		18	
2 N3012	S	S	Р	360	150	12	12	200			30	120	30	4				T	7	6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2242	2SC 594		2SC 689H			2SC 725			-0
2N2256	2SC735	2SC 945	2SC1204	2SC 1209		2SC 993			
2N2273		2SA 204	2SA 212	-					
2N2288			2SB 85						
2N2291			2SB85						
2N2330	2 SC 496	2SC959			2SC 1407	-	177-17		
2N2357								1	1/31
2N2368	2SC594	2SC764				2SC 725	The state of the		7.7
2N2369	2SC594	2SC 764				2SC725		100	17
2N2369A	2SC 594	2SC 764				2SC 725			
2 N2381	200004	2SA643		l	2SA719	2SA558			
2N2410	2SC498	2SC 959			2SC1407	23A330			50.00
2N2411	2SA 495	2SA711	2SA 742		2301407	2SA558			-
	23,433	238711	23A 142			23A338		2SA441	15 182
2N2415						· · · · · · · · · · · · · · · · · · ·		25A441	
2N2453	-	0001000		200450			 		
2N2476		2SC 1266		2SC 450		2SC1069			4.
2N2481			-					 	
2N2490								-	-
2N2501	2SC594	2SC764	2SC689H			2SC 718		2SC 423	
2N2526	2SA 679						2SB519		
2N2537	2SC498	2SC959			2SC 407				
2N2604	2SA 497	2SA579							
2N2635	2SA 599	2SA603	2SA 673				2 S A 480	1.523	
2N2639									-
2N2652									
2N2696		2SA643	2SA 565		2SA719				17.7
2N2708	2SC378		2SC462*		2SC563		2SC1128		
2N2710	2SC 594	2SC764	2SC708			_		2SC423	1 A 32 T
2N2720							25011	8-11	170
2N2722								7.77 44.0	21 2013
2N2723						1147016			
2 N2728									
2 N2785							5 - 5 - 20		
2 N2800		2SA712		_	2SA752			1	212279
2 N2802					20,1,102				-
2 N2832			2SB 333		2SB430				10
2 N2845	2SC 594		200 000		238430	2 S C 725	-		
2 N2857	2SC 382	2 S C 1320		2SC773		2SC724			- 33
2 N2894	2SA 467	2SA 603		230713	2 S A 550	2 SA 559			1
	237,401	20,003			23A330	7 3 M 333	2SC 430		
2 N2895			-				2361430	-	
2 N2903			-		- I		204520	-	7
2 N2904				-			2SA 529	-	
2 N2912									
2 N2913								400	1
2 N2929		004	001					-	
2 N2944 .	•	2SA 603	2SA 565			2SA524		2SA532	1000
2 N2947				2SC 688				2SD 330	- 15
2 N2949		2SD71	2SD120	2 SD 356		2SD183		11112	. 713
2 N2951								100	1 1-4
2 N2955		2SA 603	2SA 673	2 S A 628			2SA480		Loss I
2 N2958								7.00	W. The S
2 N3009	2SC 594	2SC764						2SC 423	Transition of the same
2 N3010		2SC 925		2SC1240					- 170
2 N3011	2SC 594	2SC764						2 SC 423	5 5 6
2 N3012	2SA467	2SA 603				2SA559			13.00

	Ī	_		MA	XIMUM	RA	TINGS		_				ELE	CTRICA	L CHARA	CTERI	STICS						
TYPE	USE	RIAL	POLALITY	Pc	Tj	Voa	Voso	łc	lo	·	П	hre		hfe				fr-			'	OUTLINE	NOTE
ITTE	USE	MATER	٥. ٩	25℃	(0)	(V)	(V)		l				1 , ,	nte	hie (Q)	hre (×10)	(σ _μ)	*fae **fao	NF	Cob	Coxitab	TO-	NOTE
0110015	1	_	<u> </u>	(m₩)	<u> </u>			(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(2)	(>10)	(μο)	(MHz)	(48)	(pF)	(ps)		
2 N3015	SH	S	N	800	200	60	30		200	30	30	120	150					250		8		5	
2 N3019	AH	S	N	800	200	140	80	I A	10.0	90	100	300	150	80				100	1 KHZ 4	12	400	5	
2 N302 I	SHP	S	Р	25 W	175	30	30	3 A			20	60	I A	2			ļ			L		3	
2 N3043	AM	S	N	250	200	45	45	30	0.01	45	100	300	10µA	130	3.2K		100	30	10KHZ 5	8		89	DUAL N.N
2 N3049	AM	S	Р	250	200	25	20	100	0.01		20	120	10µA	30	750K			60	10KHZ 6	8		89	DUAL P.P
2 N3053	SH	S	N	5 W	200	60	40	700			50	250	150					100		15		5	
2 N3055	AP	S	N	115W	200	100	70	15A			20	70	4 A	15				10 K*				3	
2 N3072	S	S	Р	800	200	60	60	500			30	130	50		1.5K	26	1200	130		10		39	
2N3081	SH	S	Р	600	200	70	50	600	10 n A	50	20		500					150		13		5	
2N3114	AH	s	N	800	200	150	150	200	0.01	100	30	120	30	25	30					9		5	
2N3120	S	S	Р	800	200	45	45	500			30	130	50	180	1.5K	26	1200	130		10		18	
2N3127	AH	G	Р	100	100	30	20	50	3	10	20	75	3	.20				400	200 KHZ 5		12	72	
2 N3 133	SH	S	Р	600	200	50	35	600			40	120	150					200		10		5	
2 N3137	AH	S	Ν	600	200	40	20	150	50	20	20	120	50							3.5		5	
2 N3209	S	S	Р	360	200	20	20	200			30	120	30					400		5		18	
2 N3210	SH	s	N	360	200	40	15	500	0.01	20	30	120	10					300		6		18	
2N3211	SH	S	N	360	200	40	15	500			50	150	10					350		4		18	_
2 N3232	AHP	S	N	117W	200	80	60	7.5A			18	55	3 A	1								3	
2N3244	SH	s	Р	I W	200	40	40	1 A	0.05	30	50	150	500					175		25		5	
2N3248	SH	S	Р	360	200	15	12			m	50	150	0.1					250		8		18	
2N3250	SH	S	Р	360	200	50	40	200			50	150	10	50	6 K	10	4	250	100 HZ	6	250	18	
2N3252	SH	S	N	1 W	200	60	30		0.5	40	30	90	500		-			200	ь	12	200	5	
2N3279	AH	G	Р	100	100	30	20	50	1	10	10	70	3	10			_	500	200 MHZ 2.9	0.9	5	72	
2N3283	AH	G	P	100	100	25	25	50	2	10	10		3	10				400	2.9 200 M HZ	1	10	72	
2N3287	AH	S	P	200	200	40	20	50	0.01	15	15	100	2	15				600	200 MHZ	0.9	8	72	
2N3291	AH	S	N	200	200	25	25	50	0.01	10	10	100	2	10		-		600	4 .9 200 MHZ	1	15	72	
2N3295	AHP	S	N	800	175	60	60	250	0.1	50	20	60	10	10					6	8	13	5	
2N3296	AHP		N	700	175	60	60	700	0.1	50	5	50	40							20		102	
2N3297	AHP	-	N	25 W	175	60	60	1.5 A	0.1	50	2.5	35	400							60		3	
2N3298	AHP	s	N	1 W	175	25	15	100	0.01	10	80	240	10							5		18	-
2N3299	SH	s	N	800	200	60	30	500	0.01	10	40	120	150			\dashv		250		- 8		_	
2N3303	SH	S	N	600	200	25	12	1 A			30	120	300					450				5. C94	
2N3304	S	S	P	300	200	6	6	1.0			30	120	10			_		500		3.5			
2N3307	AH	S	P	200	200	40	35	50	0.001	15		250	2	40				1200	200 MH Z		15	18	-
2N3311	AP	G	P	170W	110	30		5 A	5 mA	30	40	120	_	40 30		-		1K*	4	_!_	15	72	
2 N3323	-	G	P	150	100	35	30	100		$\overline{}$	60		3 A					_		2	100	36	
2N3323 2N3375	AHP	S	N	11.6W	200	60	35 40		0.5	10	30	100	3	30		-		600	-	3 8	100	18	
2N3409	AM	_	N	500	200	60		1.5A 500	0.01	50	10		250	2.5				500	I KHZ			60	DUAL NA
2 N3423	AM	S				-	30	500	0.01		30	120	0.1	2.5	45			1000	4	8		C32C	DUAL N.N
2 N3423 2 N3425	AHP	S	N	300	200	30	15	20	·——	15	20	200	3		45	-		1200		3		C32C	DUAL N.N
		-	N	300	200	40	15		0.025	20	30	120	10	20				300	1 Km2	6	<u> </u>	C32C	DUAL N.N
2 N3427	A	G	P	200	100	45	30	500	3	1.5	100	350	100	200				6**	1 KHZ 5	20		5	
2 N3445	AP	S	N	115W	200	80	60	7.5A		L.	20	60	3 A	20						260		3	
2 N3467	SH	S	P	I W	200	40	40	I A	0.1	30	40	120	500	<u> </u>				175		25		5	
2 N3487	AP	S	N	115W	200	80	60	7.5A		_	20	60	3 A	20	100					550		61	
2N3494	AH	S	Р	600	200	80	80	100	100 nA	50	35		100	40	100	2	300	200	27	7		5	
2 N3498	AH	S	N	1 W	200	100	100	500	0.05	50	40	120	150	50	200	2.5	10	150		10		5	
2N3506	SH	S	N	I W	200	60	40	3 A	L		40	200	1.5A					60		40		5	
2 N3508	SH	S	N	400	200	40	20		0.2	20	40	120	10	5				Ш		4	<u> </u>	46	
2 N3510	SH	S	N	360	200	40	10	500		_	25	150	150	3.5						4		52	
2 N3515	AM	S	N	250	175	80	40	500	0.02	60	50	200		50	ΙK		4	50	1 KEZ 8	18		89	DUAL N.N
2 N3544	AH	S	N	300	175	25	25	100	0.01	15	25		10							2.5	10	18	
2 N3546	SH	S	P	360	200	15	12				30	120	10					700		6		18	
2 N3611	AP	G	Р	85 W	110	40	30	7 A	40	2	35	70	3 A	15								3	
2 N3615	AP	G	Р	85 W	110	80	60	7 A	60	2	30	60	3 A	15				0.6				3	
2 N3634	AH	S	Р	1 W	200	140	140	I A	100 nA	100	50	150	50	40		3	200	150	I KHZ 3	10		5	

·	1	1						7	
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N30 I 5	2 SC 495	2SC 959			2SC1407				_
2 N30 19	2SC 38	2SC 960							
2 N302 I	2SB 435				2SC 449				
2 N3043									.3
2 N3049						_			
2 N3053	2 S C 547		2SC 708	2SC1155			2 SC 1124	2SC614	
2 N3055	2SDIII	2SD 151	2SD 341			2 SD 250	2 SD 340		
2N3072		2SA 607						_	
2N3081		2SA 708					2SA 706		
2 N3114	2 S C 484			2SC 310					
2N3120	2SA 503		-04.070	004705	2SA 546	2SA 580	004505	ļ	<u> </u>
2 N3 127	2SA 776A	2SA 579	2SA 673	2SA725			2SA705		+
2 N3133	202 407	2SA 607	0001540						+
2 N3137 2 N3209	2SC 497	2SC 139	2 SC 154C					2SC 532	+
2 N32 I O	2SA 467 2SC 504	2SA 603				2SC 906		2SC 423	+
2 N3211	2SC 504 2SC 504					2SC 906	_	2 SC 423	
2 N3232	230 304	2SD 151				2SD196		200 420	
2N3244		2SA 613	2SA 715		2SA 684	200130			
2N3244 2N3248	2SA 467	2SA 603	20X 713		2SA 550				+
2N3250	2SA 467	2SA 603			2SA 550				+
2N3252	2SC 513	2SC 959	2SC 1385		2071 000				1
2N3279	2SA 776A	2SA 579	2SA 673	2 S A 725			2SA 705	4	1
2N3283	2SA 776A	2SA 579	2SA 673	2SA725			2SA 705		
2N3287	2SA 776A	2SA 579	2SA 673	2SA725			2SA 705		1
2N3291	2SC 371	2SC 606			2SC 563		2SC1128		
2N3295	2SC 501	2SC 959							
2N3296	2SC 501	2 SC 959					4		
2N3297	2SC 790	2SD288	2SC 1061		2SD 317		2 S D 292		
2N3298	2 S C 495	2SC 959							
2N3299	2SC 495	2SC 959						150	
2 N3303			2SC 1212A		2SC 1383				T
2N3304	2SA 467	2SA 603	2 SA 530		2SA 550				
2N3307	2SA 561		2SA 530			2SA 558			
2N3311									
2N3323			2SA 549 A	2SA 696		2SA 555			
2N3375	2SC 1196								
2N3409									
2 N3423									+
2 N3425					4				\vdash
2 N3427		2 S B 226				2SB 427	ļ		+
2 N3445		2SD 151			004 750				+
2 N3467		000 :5:			2SA 752				+
2 N3487	004 407	2SD 151					-		+
2 N3494	2SA 497	000.050					-		+
2 N3498	2SC 497	2SC 959					-		+
2 N3506 2 N3508	2SC 594							2SC 423	-
2 N3508 2 N3510	2SC 594 2SC 594						-	2SC 423	+
2 N3510 2 N3515	230 334		-				 	230 723	+
2 N3515 2 N3544	2SC 594	,				2SC 718	-	2SC 423	+
2 N3544 2 N3546	2SC 594 2SA 467				2SA 550	2SA 559		200 423	+
2 N36 I I	2SB 530				20000	20000	2SB 519	<u> </u>	+
2 N3615	2SB 530						2SB 519		+
2 N3634	200 000					_	2SA 762	 	+

MOTOROLA

		_	,_	MA	XIMUM	RA	TINGS						ELE	CTRICAL	CHARA	CTERIS	STICS	15					
TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Vas	V 080	íc	lo	80		hre		hfe	hie	hre	hoe	fr *fae **fap	NF	Cob	Co×rbb'	OUTLINE	NOTE
		-		25°C (mW)	(3)	(V)	(¥)	(mA)	(µA)	Vos(V)	min.	max.	ic(mA)		. (页)	(×10 [†])	(µ7)	⇒⊕fαD (MHz)	(dB)	(pF)	(ps)	TO-	
2 N3664	AHP	S	N	5 W	200	60	60	500	L		8	80	50			Ш				6		102	
2 N3712	AH	S	N	800	200	150	150	200	0.1	75	30	150	30	25				240		9	100	5	
2 N3713	AHP	S	N	150W	200	80	60	10A			25	75	1 A	2.5								3	
2 N3719	SHP	S	Р	6 W	200	40	40	3 A	10	40	25	180	I A					60		120	`	5	
2 N3722	S	S	N	800	200	80	60	500			40	150	100					300		10		5	
2N3726	AM	S	Р	400	200	45	45	300	10 nA	30	135	350	- 1	4 20	11.5K	15	80	600	I KHZ	8		C 654 -04	DUAL P.
2 N3733	AHP	S	N	23W	200	65	40	3 A			10	150	250					400		20		60	
2 N3734	SH	S	N	I W	200	50	30	1.5A			30	120	I A	2.5						9		5	
2 N3738	AP	S	N	20 W	175	250	225	3 A	100	250	40	200	100	35				10		20		66	
2 N3740	AP	S	Р	25 W	200	60	60	4 A	100	60	30	100	250	25				3		100		66	
2 N3742	AH	S	N	I W	200	300	300	50	0.2	200	20	200	30	20	500	- 1	50			6		5	
2 N3743	AH	S	Р	1 W	200	300	300	50	0.3	200	25	250	30	30	1000	4	200			15	L	5	
2 N3762	SH	S	Р	I W	200	40	40	1.5A			30	120	ı A							15		5	
2 N3766	AP	S	N	20 W	175	80	60	4 A	100	80	40	160	500	40				10		50		66	
2 N377 I	AP	S	N	150W	200	50	40	30A	2 mA		15	60	15A	40				0.2				3	
2 N3783	AH	G	Р	150	100	30	20	20	5	10	20	200	3	20				800	200 MHZ 2.2	1	6	72	
2 N3789	AP	S	Р	150W	200	60	60	10A			25	90	I A					4				3	
2 N3798	A	S	Р	360	200	60	60	50	0.01	50	150	450	0.5		3 K	25	60		100 MHZ 4	4		18	
2 N3800	A	S	Р	250	200	60	60	50	0.01	50	150	450	0.1	150	3 K	25	60	500	100 HZ 4	4		71	DUAL P.
2 N3804A	AM	S	Р	250	200	60	60	50	0.01	50	150	450	0.1	600	15 K	25	60	500	100 HZ 4	4		7,1	DUAL P.
2 N3818	AHP	S	N	25 W	Í75	60	60	2 A	1	50	5	50	400							40		60	
2 N3838	SH	S	N,P	250	200	60	40	600			100	300	150		1.5		50	200	I KEZ B	8		89	DUAL N.
2 N3866	AHP	S	N	5 W	200	55	30	400			10	200	50					800		2		39	
2 N3883	SH	G	Р	300	100	25	15	300			30		200					300		4.5		5	
2 N3903	SH	S	N	310	135	60	40	200			50	150	10	50	500	0.1	I	250	1010HZ 6	4		92	
2 N3905	SH	S	Р	310	135	40	40	200			50	150	10	50	500	0.1	I	200		4.5		92	-
2 N3924	AHP	S	N	7 W	200	36	18	500	100	15				50	500	10	- 1	350	•	12.5		102	
2 N3946	SH	S	N	360	200	60	40	200			50	150	10					250	10KHZ 5	4	200	18	
2 N3948	AHP	S	N	I W	200	36	20	400	0.1	15	15		50					700		4.5		39	
2 N3950	AHP	S	N	70W	200	65	35	3.3A	10mA									150		80		60	
2 N3959	SH	S	N	400	200	20	12				40	200	10					1000		2.5	30	18	
2 N4012	ΑP	S	N	11.6W	200	65	40	1.5A			4	40	I A					500		10		60	
2 N 4015	AM	S	Р	4 00	200	60	60	300	10 nA	50	135	350		4 20	11.5K	15.	80	600	I KHZ	8	ļ	C 654 - 04	DUAL P.
2 N4048	AP	G	Р	170W	110	45	30	60 A	200	2	60	120	15A					2 K*				C7	
2 N4072	AHP	S	N	1.5W	200	40	20	100	0.1	15	10		25 A					550		3		18	
2 N4 123	SH	S	N	310	135	40	30	200	50 n A	20	50	150	2	50		Щ		250	10KHZ 6	4	ļ	92	
2 N4 125	SH	S	Р	310	135	30	30	200	50 n A	20	50	150	2	50		Ш		200	10KHZ 5	4.5		92	
2 N4231	AP	S	N	60 W		90	80	3 A	50	50	10	80	I A	20	1			4		200	_	66	
2 N4234	AH	S	N	200	200	30	30	3 A	100	40	30	150	250	25				3		100	ļ	5	
2 N4237	SP	S	N	360	200	40	40	I A	100	40	40	120	-10	30				2		100	L.	5	
2 N4260	SH	S	Р	200	200	15	15	30	<u> </u>		30	150	10		L		-	1200		2.5	35	72	
2 N4264	S	S	N	310	135	30	15	200			40	160	10					300		4	L	92	
2 N4276	AP	G	Р	170W	110	30	20	60 A	200	2	60	120	15A	L	<u> </u>		*	2 K*			<u> </u>	3	
2 N4398	AP	S	Р	200W	200	40	40	30 A	I mA	40	15	/60	15 A	40				4				3	
2 N4400	SH	S	N	310	135	60	40	600			50	150	150	20	500	0.1	- 1	200		65	<u> </u>	92	
2 N4402	SH	S	Р	310	135	40	40	600			50	150	150	30	750	0.1	- 1	150		8.5	-	92	
2 N4404	Α	S	Р	5 W		80	80	ΙA	25 n A	60	40	120	150					600		10		39	
2 N4406	Α	S	Р	5 W		80	80	2 A	25 n A	60	30	120	500	<u> </u>	ļ			750		15		39	
2 N4409	S	S	N	310	135	80-	50	250	0.01	60	60	400	1		L			300		12	- 1	92	
2 N4427	AP	S	N	3.5W		40	20	400			10	200	100	1				500		4		39	
2 N4428	AP	S	N	3.5W		55	35	425			20	200	50					1000		1.2		39	
2 N4890	S	S	P	IW		60	40	500			50	250	150					280		9		39	
2 N4898	AP	S	Р	25W	200	40	40	ΙA	100	40	20	100	500	25				3		100		66	
2 N490 I	AP	S	Р	87.5W	200	40	40	5 A	100	40	20	80	ΙA	20				4]			3	
2 N4904	AS	S	Р	87.5W	200	40	40	5 A	100	40	25	100	2.5A	40				4				3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N3664	2SC 547			2SC 700	2SC 575			2SC 614	
2 N3712		2SC49							
2 N3713	2SD113	2SD 5							
2N3719	2SB 462							ì	
2 N3722	2SC 497	2SC149				2SC 233		2SC 614	
2N3726		200110							$\overline{}$
2 N3733	2SC 789	2SC 037							_
2 N3734	2SC 485	2301037				2SC916			+
	230 403					200111	2SD56		+
2 N3738	20064				2SB512		20000	2SB 50 7	
2 N3740	2SB64				238312		2SC 1056	238307	+
2 N3742	2 SC 996						230 1030		+
2 N3743		004.612			2SA 752				+
2 N 3 7 6 2		2SA 613			23A 132				
2 N3766	,		2.SC1055			000.040		サンケン	
2 N3771						2SD 249		2SC1444	
2 N3783					2SA 310			ļ	
2 N3789								ļ	+
2 N3798	2 S A 502	2SA 603	2SA 530H		2 S A 550				_
2 N3800									
2 N3804 A									
2 N3818	2SC 1077								
2 N3838									
2 N3866				2SC1155	2SC 700				
2 N3883	2SA 467	2SA 603							
2N3903	2011	2SC 603							
2N3905	2SA 467	2SA 603							
2N3924	2077 107	2SC 891			2SC 1074				y 200
2N3946	2SC 594	250 551				2SC 725			
2N3948	200 334	2SC 959		2SC1016		200.11			-
2N3950		230 333		2SC1020					
2N3959		2SC 852		2001020		2SC1068			
		230 852				2301000			_
2N4012									+
2N4015								-	-
2N4048					000001	000004			-
2N4072					2SC 821	2SC854			-
2N4123	2SC 594	2SC 729				2SC 565			-
2N4125	2SA 467	2SA 603						-	
2N4231			2SC 1030						_
2N4234									-
2N4237									_
2N4260	2SA 561		2SA 530H			2SA 559			
2N4264	2SG 594		2SC 689						
2N4276									
2N4398									-
2N4400	2SC 1382			2SC 2		2SC1247A			
2 N4402					2SA720				11.
2 N4404		2SA 652			2SA 547A		2SA761	1	100
2 N4406		2SA 652			2SA 547A		2SA761		100
2 N4409	2SC 511	2SC 1218							
	2SC 1196	2001210	-	2SC1323	2SC 731				W-
2 N4427		· ·	 		2SC 731				1 11
2 N4428	2SC 1196	000:001	-	2SC1323	230 /31	_		-	
2 N4890		2SB 109A			000:07:	200.0			+
2 N4898	2SB 425	2SB 250 A			2SB 127A	2SB42			-
2 N4901		2SA 649			1				
2 N4904		2SA 649							100

				MA	XIMUM	RA	TINGS	-					ELE	CTRICAL	L CHARA	ACTERI	STICS					Ι	
TYPE	une	RIA	É	Pc	Υj	Vos	Voso	lc	1	30	1	hee		hfe				fr		Cob		OUTLINE	
TIPE	USE	MATER	POLALITY	25℃	(2)	(V)	(V)	(mA)	(μA)	Vos(V)	 			nie	hie (Q)	hre (×10)	hoe (μర)	*fae **fao	(dB)	(pF)	Coxitbb' (ps)	TO-	NOTE
70.00		_		(mW)		<u> </u>		_		-	min.	max.	Ic(mA)		(2)	(//10 /	1,20,	(MHz)	(ub/		(ps)		
2 N4910	AP	S	N	25 W	200	40	40	I A	100	40	20	100	500	25				3		100		66	
2N4913	AP	S	N	87.5W	200	40	40	5 A	1 mA		25	100	2.5A	20				4			<u> </u>	3	
2 N4918	AP	S	Р	30 W	150	40	40	I A	100	40	20	100	500	25				3		100	-	C77	
2 N4921	AP	S	N	30 W	150	40	40	I A	100	40	20	100	500	25				3		100	<u> </u>	C77	
2 N4924	АН	S	N	I W	175	100	100	200	0.1	50	40	200	150					500		10		39	
2 N4926	АН	S	N	I W	175	200	200	50	0.1	ļ	20	200	30	25	75K	0.1	5	300		6		39	
2 N4928	Α	S	Р	3 W		100	100	100	0.5	ļ	25	200	10					1000		6		39	
2 N4937	AM	S	Р	600	200	50	40	50	2 nA	40	50	250		50	4 K	3	15	400	IOKHZ 4	3	<u></u>	C32	DUAL P.P
2 N4957	Α	S	Р	200	200	30	30	30	0.1	20	20	40	2					1600	450 MHZ 2.6		8	72	
2 N4974	AL	S	Р	800	200	40	30	ΙA			5 K	9 K	IμA	2500				2.75	10KHZ 3	4		12	DARLINGTON
2N5016	AHP	S	N			65	30	4.5A		<u> </u>	10	200	500					500	4501847	20	L.	60	
2 N5031	АН	S	N	200		15	10	20	l nA	ļ	25	300	1			L		3500	450 MHZ 2.5	1.3	5	72	
2 N5050	AP	S	N	40W	200		120	2 A	ļ		35	105	500	25				10		250		66	
2 N5067	AP	S	N	87.5W	200	40	40	5 A	↓ mA	40	20	80	I A	20		<u> </u>		4				3	
2N5070	AHP	S	N	70 W		65	30	3.3A	10 mA		10	100	3 A					100	1 10112	85		60	
2 N5086	A	S	Р	310	135	50	50	50	10 n A	10	150	500	0.1	150		_		120	1 KH2 3	4		92	
2 N5088	Α	S	N	310	135	35	30	50	50 n A	20	300	900	0.1	350				175	IOKHZ 3			92	
2 N5090	AHP	S	N		200	55	30	400			10	200	50		L	ļ		500		3.5		60	
2 N5 1 08	AHP	S	N	3.5W		55	55	400										1200		1.3		39	
2 N5 155	SP	G	Р		110	140	120	15A	200	2	25	100	8 A					100				3	
2 N5 160	AHP	S	Р	5 W		60	40	400		28	10		50					9 00	-			39	_
2N5161	AHP	S	Ρ	20W		60	40	1.5A	100	28	10		250					500	200 1817	10	_	60	
2 N5 179	AH	S	N	200		20	12	50	0.02	15	25	250	3	25				2000	200 MHZ 4.5		3	72	
2 N5 190	AP	S	N	40 W	150	40	40	4 A	100	40	25	100	1.5A			<u> </u>		2				C77-1	
2 N5 193	AP	S	Р	40 W	150	40	40	4 A	100	40	25	100	1.5A					2	100 MHZ			C77-I	
2 N5208	AH	S	Р	310		30	25	50	10 n A	10	20	120	2	150		ļ		1200	3 I KHZ		10	92	
2 N5209	Α	S	N	310		50	50	50	10 n A	10	100	300	0.1	150				80	3			92	
2N5219	A	S	N	310		20	15	100	0.1	10	35	500	2	35				150				92	
2 N5220	Α	S	N	310		15	15	500	0.1	10	30	600	50	30				100				92	
2 N5221	A	S	Р	310		15	15	500	0.1	10	30	600	50	30				100				92	
2 N5222 2 N5223	A	S	N	310		20 25	15	50 100	0.1	10	20 50	1500 800	2	20 50				450 150				92 92	
2N5223 2N5224	SH		N	310		25	12	100	0.1	15	40	400	10	50				250				92	
2N5224 2N5225	A	S	N	310		25	25	500	0.3	15	30	600		30				50				92	
2N5225	A	S	P	310	-	25	25	500	0.3	15	30	600	50 50	30				50				92	
2N5227	A	S	Р	310	_	30	30	50	0.3	10	50	700	2	50		-		100				92	
2N5228	SH	S	P	310		5	5	50	0.1	,,,	30	700	10	30				300				92	
2N5229	SC	S	Р	2 W		15	10	50	I n A		50		100 _t	2				500				46	
2N5301	AP	S	N	200W	200	40	40	30 A	l mA	40	15	60	15 A	40				2				3	
2N5324	SP	G	P	56W	110	250	150	10A	, 11174	-10	20	60	5 A	40	-			2				3	
2N5332	SH	S	Ė	360		20	12	100	10 n A		20	80	1					600				46	
2N5334	SP	S	N	6 W	200	60	60	3 A	5	60	30	150	1 A	0.0				40		75		39	
2N5334 2N5336	SP	S	N	6 W	200	80	80	5 A	10	80	30	120	2 A		-			30		250	-	39	•
2N5344	SP	S	P	40W	200	250	250	I A	100	250	25	100	500					60		200	-	66	
2N5344 2N5346	SP	S	N	60 W	200	80	80	7 A	100	80	30	120	2 A					30		250		59	
2N5357	SP	S	P	30 W	200	300	300	3 A	,,,	-	25	100	500					50		60		37	
2N5400	A	S	P	310		130	120	600	0.1	100	40	180	10	30				400	IOKHZ	- 6		92	
2N5427	SP	S	N	35 W	200	80	80	7 A	10	80	30	120	2 A	30				30		250		66	
2N5435	SP	G	P	120W	110	80	60	60 A	200	2	20	60	25 A					0.35				3	
2N5477	SP	S	N	60 W	200	80	80	7 A	10	80	30	120	2 A		_			30		250		59	
2N5550	A	s	N	310		160	140	600	0.1	100	60	250	10	50		-		300	IOKHZ IO	6		92	
2 N 5 5 8 I	SH	S	N	2 W		75	40		0.01	60	40	120	150	30	ΙK	5	3	250	.,	Ť	150	46	
2N5583	SH	S	N	5 W		30	30	500	50 n A	20	25	100	100	"				1300			8	39	
2N5629	AP	S	N	200W	200	100	100	16A	l mA	100	25	100	8 A	15				1		500	Ħ	3	
2N5632	AP	S	N	150W	200	100	100	10A	I mA	100	25	100	5 A	15				- 1		300		3	
														-								-	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	. SANYO	NOTE
2 N4910					2SD317				
2 N4913		2SD322							
2 N4918		2 SB 250 A			2SB127A	2 SB 42		2SB 216	
2 N492 I					2SD317				
2 N4924	2 S C 1382						2SC1124	2SC 614	
2 N4926	2SC996		2 S C 685 A				2SC 1127		
2 N4928									
2 N4937									
2 N4957	2SA 561	2SA711	2 S A 530 H						
2 N4974									
2N5016									
2 N503 I	2 SC 1 1 93	2SC1270				2SC1460			L
2 N5050	2SD 9				2SD 12	2SD175		2SD 67	
2 N5067		2SD 151	2 SD 125 A			2SD 53			_
2N5070		2SC 1037							
2 N5086	2SA 502	2SA 675		2SA668				ļ	ļ
2 N5088	2SC 734				2SC538A	2SC 964	1		
2 N5090			L						
2 N5 108				2 SC 1323	2 SC 731	2SC1068	1		
2 N5 155									
2 N5 160	~	,							ļ
2 N5 16 I									ļ
2 N5 1 7 9		2SC1424							
2 N5 I 90								2SD315	
2 N5 193							2SB 518	2 SB 509	
2 N5 208	2SA 561	2SA 711				2SA 559			
2 N5 209	2SC 734				2SC538A			2SC1210	
2 N5219	2SC 734				2SC 538A	2SC 964	3	2SC 1210	
2 N5220	2SC 498			2SC1209	2SC 383				
2 N5221		2SA 643			2SA 719			· ·	
2 N5222	2SC 734				2SC 538A	2SC 964		2SC 1210	ļ
2 N5223	2SC 734				2SC 538A	2SC 964		2SC1210	-
2N5 224	2SC 735			2SC1209	2SC 538A			2 S C 933	
2N5225	2SC 498			2 SC 1209	2SC1383				
2N5226		2SA 643			2SA719				
2N5227	2SA 561	2SA 711				2SA 558			
2N5228	2 S A 56 I	2SA 711				2SA 558			
2N5229									
2N5301								202.401	-
2N5324								2SB 491	
2N5332		2SA710	2SA 742H		000	2SA 558	000 00		<u> </u>
2N5334		2SD155	2SC 1060		2 S D 226 B	2SD 148	2SD 28		-
2N5336		2 S D 283			-		ļ.		
2N5344		000.00		-			0.00 000		-
2N5346	2SD371	2SD 188					2 S D 338	000.00	
2N5357		004 7:0			 			2SB 412	-
2N5400		2SA 712			200,1007		_		1
2N5427	2SD 119	_			2SD 189A				-
2N5435	000 -7:	000:					000 -00	ļ	-
2N5477	2SD 371	2SD188					2 S D 338	_	
2N5550	2SC 510					<u> </u>			
2N5581						0001			_
2 N5583	- 1	2SC1333				2 S C 1355			
2 N 5 6 2 9								-	17.4
2 N 5 6 3 2			L	<u></u>			2SD 340		

1 4		¥.	<u>}</u>	MA	XIMUM	RA	TINGS						ELI	ECTRICA	L CHAR	ACTERI	STICS						
YPE	USE	MATERIAL	POLALITY	Pc 25°C	(T)	Vos (V)	Voen (V)	lc (-1)	10			hfe		hfe	hie (Q)	hre (×10)	hoe	fr *fae **fap	NF		Cox rbb'	OUTLINE TO-	NOTE
15655	AP			(mW)				(mA)	_	Vos(V)	min.	max.	Ic(mA)		(2)	(X10)	(μδ)	(MHz)	(dB)	(pF)	(ps)		
	AP	S	N	20W	150 200	275 100	250 100	500	10	275 100	30	250	100	20	 -	 		10		25		C77-02	
	AP	S	N	10W	200	100	100	IA	+	100	40	150	250 250	40				30		50		- 5 - 5	
	AP	S	P	300 W	200	60	60	50 A	2 mA	60	15	60	25A	15		-		2		2000		3	
	AP	S	N	300 W	200	60	60	50 A	2 mA	60	15	60	25 A	15				2		1200		3	
15692	AP	G	Р	125 W	110	50	30	40 A	200	2	20	65	25 A					0.2		1200		3	
15763	SP	S	Р	400		65	60	600	í0 n A	50	70		10		_	 		200		8		18	
15793	SH	S	N	500		75	40	600	IO nA	50	40	120	150					250				C 654 -04	DUAL N.
	SH	S	Р	500		60	60	600	20 n A	50	40	120	150					200		8 -		C 654 04	DUAL P.
	АН	S	Р	200	125	30	30	30	0.1	20	20	150	2	20				1600	450 MHZ 2.3		8	72	
	SH	S	N	200	125	5	10	15	0.01	7.5	25		10					2.5G			5	46	
	SH	S	N	350		20	10	100	0.02	10	25	200	25					2.6G			18	72	
_	AM	S	P	300		50	40	50	0.01	50	50	150	0.1	200	6 K	10	40	200	1 KHZ 6		ļ	C 654 -04	DUAL P.
5845 5851	SH	S	N	500		50	40	100	0.5	40	25	150	500					200	200 1817	9		92	
5864	S	S	P	1.25W		30 90	15 70	1.5A	0.5	15 45	40	500	10		200	-		850	200 MHZ 2.5		10	72	
5865	S	S			7 W	70	50	1.5A	0.5	35	50 40	500 200	150	50	200	5	10	50				39 39	
	AP	S	_	87.5W	200	60	60	3 A	100	60	20	100	1.5A	20				100		200		39	
_	AP	S	P	100W	200	60	60	5 A	250	60	20	100	2.5A	20				4		300		3	
	AP	S	Р	150W	200	60	60	8 A	500	60	20	100	4 A	20		1		4		500	-	3	
_	AP	S	Р	160 W	200	60	60	12 A	500	60	20	100	6 A	20				4		600		3	
5883	AP	S	Р	200W	200	60	60	20 A	I mA	60	20	100	IOA	20				4		800		3	
5943	Α	S	N	3.5W		40	30	400	100	15	25	300	50	25				1350	200 MHZ 3.4		5.5	39	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N 5655					2SD198	2SD 159			
2 N 5 6 7 9	_		2SA566H	2SA 698					
2 N 5 6 8 I							2SC 1124	2SC 614.	
2 N 5 6 8 3									
2 N 5 6 8 5					,				
2 N 5 6 9 2									
2N5763	2 S A 503	2SA 571					2SA 706		
2 N 5 7 9 3									- 12
2N5795	_								
2 N 5 8 2 9									
2 N 5835	2SC1193	2SC1270				2SC1460			
2 N 5 8 4 I						2SC 1459			
2N5843									
2 N 5845	2SC 109A	2SC 97A				2\$C1150			
2N5851	2SC 1166	2 SC 330		2SC1210				_	
2 N 5 8 6 4							2SA 762		
2N5865					2SA 752		2SA762		100
2N5867							2SB 518		_
2N5871							2SB519		
2N5875							2\$B 520		
2N5879	-								
2N5883			•						
2N5943									
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	-	-	_	M	XIMU	M R	ATING	s					E	ECTRICA	L CHAR	ACTER	ISTICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Ti	Vos	VCEO	lc	læ	0		hre		hfe	hie	hre	hoe	fτ ∗fαe	NF	Cob	Coxrbb	OUTLINE	NOTE
		MA	P01	25*C (mW)	(°C)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	lc(mA)		(Ω)	(×10)	(8)	**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N176	АН	G	Р	10W							65							,				3	
2N217	Α	G	Р	160		35					50											1	
2N274	АН	G	Р	120		40																44	
2N301	AP	G	Р	30W		60					50	165											
2N301A	AP	G	Р	30W		80					50	165											
2N351	AP	G	Р	10W		40					65											3	
2N376	AP	G	Р	IOW		40					78											3	
2N404	S	G	Р	150		25					20							4				5	
2N414	АН	G	Р	150		30												8				5	
2N697	S	S	N	2W	175	60	40	500	0.01	30	40	120	150					100		20		5	
2N699	S	S	N	2W	175	120	80		2	25	40	120	150	45						20		5	
2N718A	АН	S	N	1.8W		75					40	120										18	
2N720	АН	S	N	1.8W		120					40	120										18	
2N1066	AH	G	Р	120		40																33	
2N1183	SP	G	Р	IW		45					20											8	
2N1183A	SP	G	Р	IW		60					20											8	
2N1183B	SP	G	Р	IW		80					20											8	
2N1184	SP	G	Р	IW		45					40											8	
2N1184A	SP	G	P	IW		60					40											8	
2N1184B	SP	G	Р	IW.		80					40											8	
2N1224	SH	G	Р	120		40										ļ						33	
2N1225	АН	G	Р	120		40					_											33	
2N1226	АН	G	Р	120		60																33	
2N1285	АН	G	Р	120		40					30	100										33	
2N1395	АН	G	Р	120		40																33	
2N1396	АН	G	Р	120		40							-									33	
2N1397	АН	G	Р	120		40																33	
2N1479	SP	S	N	5W	200	60	40	1.5A	10	30	20	60	200					1		150		5	
2N1480	SP	S	N	5W	200	100	55	1.5A	10	30	20		200							150		5	
2N1481	SP	S	N	5W	200	60	40	1.5A	10	30	35	100	200							150		5	
2N1482	SP	S	N	5W	200	100	55	1.5A	10	30	35	100	200							150		5	
2N1483	SP	S	Ν	25W	200	60	40	3A	15.	30	20	60	750							175		8	
2N1484	SP	S	Ν	25W	200	100	55	3A	15	30	20	60	750							175		8	
2N1485	SP	S	N	25W	200	60	40	3A	15	30-	35	100	750							175		8	
2N1486	SP	S	N	25W	200	100	55	3A	15	30	35	100	750							175		8	
2N1487	SP	S	Ν	75W	200	60	40	6A	25	. 30	15	45	1.5A							200		3	
2N1488	SP	S	N	75W	200	100	55	6A	25	30	15	45	1.5A							200		3	
2N1489	SP	S	N	75W	200	60	40	6A	25	30	25	75	1.5A							200		3	
2N1490	SP	S	N	75W	200	100	55	6A	25	30	25	75	1.5A							200		3	
2N1613	S	S	N	3W	200	75	50	IΑ	0.01	60	20		0.1	100					I KHZ	25		5	
2N1683	SH	G	P	150		13					85							50				5	
2N1700	S	S	N	5W	200	60	40	1 A	75	30	20	80	100									5	
2N1701	S	S	N	25W	200	60	40	2.5A	100	30	20	80	300									8	
2N1702	S	S	N	75W	200	60	40	5A	200	30	15	60	800									- 3	
2N1711	S	S	N	3W	200	75	50	IΑ	0.01	60	35		10						8	25		5	
2N1893	АН	S	N	3W	200	120	80	500	0.01	90	40	120	150									5	
2N1905	AP	G	Р	30W		100				4	50	150						2				3	
2N1906	AP	G	Р	30W		130					75	250						3			-	3	
2N2015	Α	S	N	150W	200	100	50	10A	50	30	15	50	5A									36	
2N2016	Α	S	N	150W	200	130	65	10A	50	30	15	50	5A									36	-
2N2102	SH	S	N	5W	200	120	80	IA	0.002	60	20		0.1	125					I HHZ	15		5	
2N2147	AP	G	Р	12.5W		75			-		100	300						3				3	
2N2148	ΆP	G	P	12.5W		60					60							2				3	
2N2270	Α	S	N	5W	200	60	60	IΑ	0.1	60	50	200	150					T	IK HZ	15		5	
2N2338	AP	S	N	150W	200	60	40	7.5A	200	30	15	60	3A									36	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N176									
2N217								1	F
2N274									
2N301	•					333			
2N301A									
2N351								17	
2N376									
2N404							TIL		
2N414								No.	
2N697	_	2SC1266							
2N699		2SC1266						1835 E 1 10	
2N718A									
2N720									
2N1066								12.19	
2N1183	_								1100
2N1183A		İ	i ·					H	
2N1183B			¥ .						Total -
2N1184									
2N1184A									
2N1184B								1	
2N1224	`								
2N1225								1	
2N1226									
2N.1285									11.201
2N1395	<u> </u>								
2N1396									
2N1390 2N1397									
2N1397 2N1479	2SD525		2SD120	2SD361			- 4		_
	2SD 524		2SD120 2SD121	230301	1				_
2N1480 2N1481			2SD121	2SD361	-				_
	2SD 525		2SD120	230301					
2N1482	2SD 524	2SD335	230121	, -	-				
2N1483				<u> </u>			_		-
2N1484		2SD335			-				_
2N1485		2SD335					_		
2N1486		2SD335					000000	12.22	
2N1487	*	2SD217					2SD338		-
2N1488		2SD217					2SD338		
2N1489		2SD217					2SD338	Very Ro	
2N1490		2SD217					2SD338		
2N1613			2SD121	1	-				
2N1683									_
2N1700	2SD234			2SD361			2SD292		
2N1701	2SC789	-2SD335							1,07
2N1702	2SD111						2SD338	1	
2N1711			2SD121		Œ			3	
2N1893			2SD121						11
2N1905						0.07,075			1 10
2N1906								2	-12-3
2N2015	2SD113		_			2SD197A	====	(2SD208新電元)	
2N2016	2SD113					2SD197A		(2SD208新電元)	100
2N2102		2SD152		1		2SD158			
2N2147		1		· .					7 %
2N2148	1 2 4		1			-		1 1	170
2N2270	2SD234			2SD361			2SD292	2SD325	1.1745
2N2338	2SD113	+		1					

		₹	7	_	AXIMU	M h	ATING:	S	5 97		_	_	EL	ECTRICA	L CHAR	AC TERI	STICS	fr		ì		OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (°C)	Vos (V)	VCEO (V)	Ic (mA)	loa (μA)	Væ(V)	min	max.	1-(+)	hfe	hie (Ω)	hre (×10)	hoe (ルで)	**fab (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO.	NOTE
2N2405	Α	S	N	(mW) 5W	200	120	90	IA	0.01	90	60	200	lc(mA)	-	(35)	(×10)	(40)	(MILZ)	I KHZ	(101)	(100)	5	_
2N2869	AP	G	P	30W	200	60	90	IA	0.01	90	50	165	150	_		-		0.2	6		-	3	
2N2870	AP	G	P	30W	-	80	-	-	-	-	50	165	-					0.2				3	_
2N2895	S	S	N	1.8W	200	120	65	IA	0.002	60	40	-	150		-	_	_	0.2	8	15	Ť	18	
2N2896	S	S	N	1.8W	200	140	90	IA	0.002	90	60	200	150					-	•	15		18	_
2N2897	S	S	N	1.8W	200	60	45	IA	0.05	60	50	200	150						-	15	-	18	
2N3053	SH	S	N	5W	200	60	45	700	0.25	30	50	250	150			-		-	_	13		5	
2N3054	AP	S	N	25W	200	90	55	4A	500	30	25	100	500					0.8				66	
2N3055	AP	S	N	115W	200	100	60	15A	300	- 50	20	70	4A				_	0.8	_		-	3	
2N3263	SP	S	N	20W	200	150	90	25A	4mA	80	25	75	15A					20	_	500	-	63	
2N3264	SP	S	N	30W		120	60	25A	10mA	60	20	80	15A				_	20		500		63	
2N3265	SP	S	N	24W		150	90	25A	4mA	80	25	75	15A		_	_		20	_	500		63	
2N3266	SP	S	N	28W		120	60	25A	10mA	60	20	80	15A		-			20		500		63	
2N3439	AH	S	N	10W	200	450	350	IA	,	-	40	160	20			H			_	10		5	
2N3440	АН	S	N	IOW	200	300	250	IA		-	40	160	20							10		5	
2N3441	AP	S	N	25W	200	160	140	3A			25	100	50					0.8				66	
2N3442	AP	S	N	117W	200	160	140	IOA	ImA	140	20	70	3A								1	3	
2N3583	AHP	S	N	2.5W	200	250	175	IA			40		100							36		66	
2N3584	SP	S	N	2.5W	200	375	250	2A			25	100	IA			-						66	
2N3585	SP	S	N	2.5W	200	500	300	2A			25	100	IA								1	66	
2N3730	AP	G	P	10W		200					10	200										3	
2N3731	AP	G	Р	5W		320					15											3	
2N3732	AP	G	Р	3W		100					35	500					-					3	
2N3771	AP	S	Ν	150W	200	50	40	30A	2mA	50	15	60	15A									3	
2N3772	AP	S	Ν	150W	200	100	60	20A	5mA	100	15	60	I0A				4				_	3	
2N3773	AP	S	N	150W	200	160	140	16A	2mA	140	15	60	8A									3	
2N3878	AHP	S	N	35W	200	120	50	7A	5mA	40	50	200	500	6						175		66	
2N3879	SP	S	Ν	35W	200	120	90	7A	5mA	40	20	80	4A	6						175		66	
2N4036	S	S	Р	7W	200	90	65	íΑ	100	90	20	200	150							-		5	
2N4037	S	S	Р	7W	200	60	40	IA	0.25	60	50	250	150	-								5	
2N4063	AP	S	Ν	10W	200	450	350	IA			40	160	20							10		5	
2N4064	AP	S	Ν	10W	200	300	250	IA			40	160	20							10		5	
2N4240	AP	S	Ν	2.5W	200	500	300	2A			30	150	750									66	
2N4314	AP	S	Р	7W	200	90	65	IA	0.25	30	50	250	150									5	
2N4346	AP	S	Р	5W		320	1-1			V 5												3	
2N4347	AP	S	Ν	100W	200	140	120	5A			15	60	2A								a destruit	3	
2N4348	AP	S	N	120W	200	140	120	10A			15	60	5A									3	
2N5034	AP	S	Ν	83W	150	55	40	6A			20	80	4A									219AA	
2N5035	AP	S	Ν	83W	150	55	40	6A			20	80	4A									219AB	
2N5036	AP	S	Ν	83W	150	70	50	8A			20	80	5A									219AA	
2N5037	AP	S	N	83W	150	70	50	8A			20	80	5A								_	219AB	
2N5038	SP	S	N	140W	200	150	90	20A			50	200	2A					60		300		3	
2N5039	SP	S	N.	140W	200	120	75	20A		- 24	30	150						60		300		3	
2N5189	SH	S	N	5W		60	35	IA	0.5	30	30		100	2.5						15		39	
2N5202	SP	S	Ν	35W	200	120		4A	5mA	40	10	100	4A	6						175		66	
N5239	AP	S	N	100W	200	300	225	5A	200		20	80	2A	20				200		150		3	
N5240	AP	S	N	100W	200	375	300	5A			20	80	2A	20				_		150		3	
N5262	SH	S	N	5W	200	75	50	2A	10	60	35		100							9		39	
2N5293	AP	S	N	36W	150	80	70	4A	-		30	120	500	-		_		0.8			-	66	
2N5294	AP	S	N	36W	150	80	70	4A			30	120	500					0.8				66	
N5295	AP	S	N	36W	150	60	40	4A			30	120	IÁ					0.8			 —	66	
N5296	AP	S	N	36W	150	60	40	4A		-	.30	120	IA			-		0.8			-	66	
N5297	AP	S	N	36W	150	80	60	4A			20	80	1.5A					0.8			-	66	
N5298		S	N	36W	150	80	60	4A			20	80	1.5A					0.8				66	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2405		2SD152		2SD358		2SD158			
2N2869									
2N2870									
2N2895			2SD121					37 3	
2N2896			2SD121		-				Ť
2N2897			2SD121			2SD149			
2N3053	2SD131			.2SD361			2SD292	9.0	
2N3054		2SD297		-				11: 11: 92	13
2N3055			2SD341				2SD340		
2N3263							<u> </u>		
2N3264			-	 			1	-	13
2N3265			-	-					1.5
2N3266									
2N3439		2SC1101			2SD199				-
2N3440		2501101			2SD198				
2N3441		2SD283			100.00		2SD56		
2N3442		2SD286					20000		+
2N3583		200200		-	2SD198	2SD159	2SC867		-
2N3584	2SC643		2SC937	-	200130	2SD159	230007		-
2N3585			2SC937	-	-	230133	+		
2N3730	2SC643		230337						
2N3731 2N3732							-		
					1	200242		10.	-
2N3771				-		2SD249			
2N3772	•					2SD250			-
2N3773	-			-		2SD250	2SD262		-
2N3878		2SD323							-
2N3879		2SD323							1
2N4036				2SB526					-
2N4037				2SB526					
2N4063		2SC1101			2SD199				
2N4064		2SC1101			2SD198				1.90
2N4240	2SC643		2SC937						
2N4314				2SB526					
2N4346									
2N4347	2SD110	2SD218					2SD340	0	
2N4348							2SD340		
2N5034					2SD334	2SD157			
2N5035					2SD334	2SD157			18-
2N5036	2SD110	2SD218					2SD339		
2N5037	2SD110	2SD218		•			2SD339		15.77
2N5038						2SC1301			
2N5039	2SD113	2SD132							
2N5189	2SD234			2SD361			2SD292		
2N5202	2SD110	2SD218				2SD177		F.	
2N5239							2SD262		1,7
2N5240					-		2SD262		
2N5262		2SD143	2SD121		2SD226B		2SD292	The same of the sa	
2N5293	2SD110	2SD218				2SD175	2SD88A-2		1-
2N5294	2SD110	2SD218				2SD175	2SD88A-2		1
2N5295	2SD110	2SD218				2SD175	2SD88A-2		
2N5296	2SD110	2SD218				2SD175	2SD88A-2		I-g/E
2N5297	2SD110	2SD218			-	2SD175	2SD88A-2		14,0145
2N5298	2SD110	2SD218				2SD175	2SD88A-2	-	1.00
2N5320		2SD285							150

		AL	7		AXIMU	M R	ATING	S			_		EL	ECTRICA	L CHAR	ACTER	CS			/	_	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Ti (°C)	Vos (V)	VCEO (V)	Ic (mA)	læ			hre		hfe	hie (Ω)	hre (×10)	hoe	ft *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N5321	SP	S	N	(mW)	(0)	75	50	2A	(μA)	Vas(V)	min.	max. 250	IC(mA)	-	(32)	(>10)	(μο)	(MHz) 50	(db)	(pr/	(ps)	5	
2N5322	SP	S	P	10W		100	75	2A	0.5	80	30	130					-	50				5	_
2N5323	SP	S	P	10W		75	50	2A	5	60	_	250	-			-		50				5	
2N5415	AH	S	P	10W	200	200	200	IA	50	150	-	150	50	25		1				15		• 5	
2N5416	AH	S	P	10W	200	350	300	IA	50	250		120	50	25	_	-	-	-		15	-	5	_
2N5490	AP	S	N	50W	150	60	40	7A		200	20	100			-	-		0.8				66	
2N5491	AP	S	N	50W	150	60	40				20	100						0.8				66	
2N5492	AP	S	N	50W	150	75	55	_			20	_	2.5A					0.8				66	
2N5493	AP	S	N	50W	150	75	55	7A	_		20		2.5A					0.8				66	_
2N5494	AP	S	N	50W	150	60	40	7A			20	100	3A					0.8				66	
2N5495	AP	S	7	50W	150	60	40	7A			20	100	3A					0.8				66	
2N5496	AP	S	N	50W	150	90	70	7A			20	100	3.5A					0.8				66	
2N5497	AP	S	N	50W	150	90	70	7A			20	100	3.5A					0.8				66	
2N5575	AP	S	7	300W	175	70	50	80A			10	40	60A					2				3	
2N5576	AP	S	Ν	300W	175	70	50	80A			10	40	60A					2				3	
2N5577			N	300W	175	70	50	80A			10	40	60A					2				3	
2N5578	AP	S	Ν	300W	175	90	70	60A			10	40	40A					2				3	
2N5579	AP		N	300W	175	90		60A			10	40	40A					2				3	
2N5580		N.	Ν	300W	175	90	70	60A			10	40	40A					2				3	
2N5671	SHP	S	N	140W	200	120	90	30A	10mA	80	20	100	15A					50		900		3	
2N5672	SHP	S	Ν	140W	200	150		30A	10mA	80	20	100	15A					50		900		3	
2N5781	AP	S	Р	10W	200	80	65.	3.5A			20	100	IA	25								5	_
2N5782	AP	S	Р	10W	200	65	50	3.5A			20	100	1.2A	25								5	
2N5783	AP	S	Р	10W	200	45	_	3.5A			20	100	1.6A	25							<u> </u>	5	
2N5784	AP	S	N	10W	200	80		3.5A			20	100	1A	25		- /						5	
2N5785	AP	S	N	10W	200	65		3.5A			20	100	1.2A	25							ļ	5	-
2N5786	AP	S	N	10W	200	45		3.5A			20	100	1.6A	25								5	
2N5804	SP	S	N	110W	200	300	225	_			10		5A	3								3	
2N5805	SP	S	N	110W	200	375	300	5A			10	100	5A	3					1			3	
2N5838	SP	S	Ν	100W	200	275					8	40	3A			-				-		3	
2N5839	SP	S	N	100W	200	300	275	-			10	50	2A			-						3	
2N5840	SP	S	N	100W	200	375	350	-			10	_	2A					-		-		3	
2N5954	SP	S	Р	40W	200	85	80	-		•	20	100	3A			-	_	5		-		66	
2N5955	SP	S	Р	40W	200	70		6A		1	20	100	2.5A					5			-	66	
2N5956	SP	_	Р	40W	200	50	40	-	10.4	00	20	100	200			-		5		000		66	
2N6032	SP	S	N	140W	200	120		50A	10mA	80	10	. 859	50A			-	_	50		800		3	
2N6033	SP	S	N	140W	200	150	-	40A	I Om A	80	100	-	40A			-	-	50		800		3	DAGUMOT
2N6055 2N6056	SP	S S	N	100W	200	80	80				100	18K					-			-	-	3	DARLINGT
2N6077	SHP	S	N	45W	200	300	275	-			12		1.2A	-	-		-			-	-	66	DAKLINGI
2N6077	SHP	S	N	45W	200	275	250	7A			12	70	1.2A				-				1	66	-
2N6079	SHP	S	N	45W	200	375	350	7A		-	12	50	1.2A			\vdash	-	-	-			66	
2N6098	AP	S	N	75W	150	70	60	10A			20	80	4A	15		-	-				1	220AA	
2N6099	AP	S	N	75W	150	70	60	10A			20	80	4A	15	-		-					220AB	
2N6100	AP	S	N	75W	150	80	70	IOA	L		20	80	5A	15						-		220AB	
2N6101	AP	S	N	75W	150	80		IOA			20		5A	15			ļ					220AB	
2N6102	AP	S	N	75W	150	45		16A	-	-	15	-	8A	15		1				-		220AA	
2N6103	AP	S	N	75W	150	45		16A			15	_	8A	15						-		220AB	
2N6106	AP	S	P	40W	150	80	70		-		30		2A	20				10				220AA	
2N6107	AP	S	P	40W	150	80	70	_	9 60		30	150	2A	20				10		-		220AB	
2N6108	AP	S	P	40W	150	60	_				30	150	2.5A	20				10			-	220AA	
2N6109	AP	s	P	40W	150	60	50				30		2.5A	20		-		10				220AB	
2N6110	AP	S	P	40W	150	40	30			,	30	150	3A	20				10				220AA	
2N6111	AP	S	P	40W	150	40	30	7A	3		30	150	3A	20				10				220AB	
2N6175	SHP	S	N	20W	135			IA	50	240	30	190		25								5.P	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5321	-	2SD285							
2N5322	2SB502				2SB128				103
2N5323	2SB502				2SB128				
2N5415	2SA739							2SB491-	
2N5416	2SA739							2SB491	
2N5490	2SC793 .	2SD217					2SD316		
2N5491	2SC793	2SD217					2SD316		- 1 AP
2N5492	2SC793	2SD217					2SD316		Ad Car
2N5493	2SC793	2SD217					2SD316		and the same of
2N5 94	2SC793	2SD 217 ·	-				2SD316		
2N5495		2SD217					2SD338		
2N5496		2SD217		li .			2SD 338		
2N5497	_	2SD217					2SD338		
2N5575									
2N5576					_	_			Getter!
2N5577									
2N5578							-	11.1	100
2N5579			~ _	12.					P. S. S. S.
2N5580				7 -					LINE
2N5671	2SC1435					2501301			
2N5672	2SC1435					2SC1301			
2N5781	2SB503				2SB128			a.	()
2N5782	2SB503				2SB128	all southers	P .	11 11	7.30
2N5783	2SB503				2SB128	STATE OF THE STATE	W. Commercial	7 7 5	Contract.
2N5784	2SD 371	2SD155				4.0	2SD290		144
2N5785	2SD 371	2SD155				100	2SD290		407
2N5786	2SD 371	2SD155				-	2SD290		17.7
2N5804	200071					-	2SD262	JAN S	100
2N5805							2SC1348	COVER TO	311.4
2N5838					-		2SD262		THE PERSON
2N5839				1			2SD262		70.00
2N5840					1	,	2SC1348		Mary III
2N5954	2SB531				+ +	6, -	2SB518		17 X 3 T T
2N5955	2SB531					10.00	2SB518		
2N5956	2SB531			 		-	2SB518	111 111	1 70
2N6032	230001			 		_	200010		-
2N6032		2SD179		-		-			110
2N6055	ļ .	230173	-	· ·			-		1000
				+		100	-		
2N6056 2N6077	<u> </u>						2SD262	7.7.	
2N6077 2N6078			-	+.		_	2SD262		437.4
							2SD262		
2N6079	-			-		2SD301	230202	7.	100
2N6098		-	-	+		2SD301		-	1 / 15
2N6099			-	=		2SD301		, .	-
2N6100			 	 -	-	2SD301	-	4.15	1
2N6101				+	 	230301	2SD340		1000
2N6102	2SC1080			+			2SD340 2SD340		
2N6103	2SC1080	004040		-	-		231340		
2N6106	2SA657	2SA648		-				100	100
2N6107	2SA657	2SA648		-			1 4 5	Maria	
2N6108	2SA657	2SA648		 				4	
2N6109	2SA657	2SA648		1.					
2N6110	2SA657	2SA648					-		-
2N6111	2SA657	2SA648						T. I.W. S. L. S.	-
2N6175					2SD198	2SDI 9	- CO. CO.	Ellis - C	

2N6176 2N6177 2N6178 2N6179	USE SHP	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	VCEC		l oa													OUTLINE	
2N6177 2N6178	SHP				(°C)	(V)	(V)	lc (mA)		_	-	hre		hfe	hie (Ω)	hre (×10)	hoe (25)	fr *fae **fab	NF (dB)	Cob (pF)	Coxrbb	то.	NOTE
2N6177 2N6178	HOHE			(mW)					(μA)	Vœ(V)		max.	Ic(mA)	0.5	(26)	(> 10)	(μ ₀)	**1αb (MHz)	(ub)	(pF)	(ps)		
2N6178	SHP	S	N	20W	135	350	300	IA	50	280	30	150	20	25								5.P	
	SHP	S	N	25W	150	450 100	350 75	IA 2A	20 0.5	360 80	30	150	50	25				50		-	-	5.P	
	SHP	S	N	25W	150	75		2A 2A	0.5	60	30	130	_				-	_		-	 	5•P	
2N6180	SHP	S	P	25W	150	100	50 75	2A	0.5	80	40 30	250 130	500					50 50			-	5•P	
2N6181	SHP	S	P	25W	150	75	50	2A	0.5	60	40	250	500					50			-	5.P	
2N6211	AP	S	P	35W	200	275	225	2A	0.5	00	10	100	IA				5 ===	30			-	66	1 1
2N6212	AP	S	P	35W	200	350	300	2A		_	10	100					-			_	-	66	
2N6213	AP	S	P	35W	200	400	350	2A			10	100	IA	-						-4		66	
2N6214	AP	S	P	20W	200	450	400	2A			10	-	IA		_	-					-	66	-
2N6246	AP	S	P	125W	200	70	60	15A			20	100				-	-	6				3	
2N6247	AP	S	P	125W	200	90	80	15A			20	100				_		6				3	
2N6248	AP	S	P	125W	200	110	100	15A	_	-	20	100					_	6				3	
2N6249	SP	s	N	175W	200	300	200	IOA			10	_	IOA					Ť				3	
2N6250	SP	S	N	175W	200	375	275	10A	-		8	50	10A				-					3	
2N6251	SP	S	N	175W	200	450	350	IOA			6	50	IOA	$\overline{}$						<u> </u>	 	-3	
2N6253	AP	S	N	115W	200	55	45	15A			20		3A		1						<u> </u>	3	
2N6254	AP	S	N	150W	200	100	80	15A			20	_	5A		_							3	
2N6257	AP	S	N	150W	200	50	40	20A	4mA	50	15	-	8A									3	
2N6258	AP	S	N	250W	200	100	80	30A	ImA	100	20	60	15A									3	
2N6259	AP	S	N	250W	200	170	150	16A			15	60	8A									3	
2N6260	AP	S	N	29W	200	50	40	3A			20	100	1.5A							N.		66	
2N6261	AP	S	N	50W	200	90	85	4A			25	100	1.5A							7		66	
2N6262	AP	S	N	150W	200	170	150	IOA			20	70	3A							ĥ		3	
2N6263	AP	S	N	20W	200	140	120	3A			20	100	500					0.8				66	
2N6264	AP	S	N	50W	200	170	150	3A .			20	60	IA					0.8				66	,
2N6288	SP	S	N	40W	150	40	30	7A			30	150	3A									220AB	
2N6289	SP	S	Ν	40W	150	40	30	7A			30	150										220AA	
2N6290	SP	S	Ν	40W	150	60	50	7A			30	_	2.5A									220AB	
2N6291	SP	S	N	40W	150	60	50	7A			30	_	2.5A					200				220AA	
2N6292	SP	S	N	40W	150	80	70	7A			30	150										220AB	
2N6293	SP	S	N	40W	150	80	70	7A			30	150										220AA	
2N6354	SHP	S	N	140W	200	150	120	IOA	5mA	150	20	150										. 3	
2N6371	AP	S	N	117W	200	50	40	7A			15	60		10				0.8				3	
2N6372	SP	S	N	40W	200	90	_	6A			20	100	$\overline{}$					4				66	
2N6373	SP	S	N	40W	200	70		6A			20	_	2.5A					4				66	
2N6374	SP	S	N	40W	200	50		6A			20		3A					4			<u> </u>	66	
2N6383 2N6384	AP AP	S	N	100W	200	4.0	40	10A				20K	5A	IK							-	3	DARLINGT
2N6384 2N6385	AP	S	N	100W	200	60 80	60 80	A01				20K	5A	IK IK	_							3	DARLINGT
2N6385 2N6386	AP	S	N	40W	150	40	40	8A				20K 20K	5A 3A	IK	_		- 1	-		200		32048	DARLINGT
2N6387	AP	S	N	40W	150	60	60	IOA	_	2	IOK	_	5A	IK IK				-		200			DARLINGT
2N6388	AP	S	N	40W	150	80	80	IOA				20K		IK	-					200	\vdash		DARLINGT
	AF		- "	4011	, 50	30	00	TUA			100	201	JA	11/		-			_	200		ZZVAB	DARLINGI
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N6 76					2SD198	2SD159			
2N6177					-		2SD171		
2N6178	2SC1079		2SC1055		2SC840				100
2N6179	2SC1079	-	2SC1055		2SC840				1
2N6180	2SA740	2SA616							+-
2N6181	2SA740	2SA616			-				
2N6211				×				2SB491	
2N6212	2SA739						_		
2N6213	2SA739								
2N6214	2SA739								
2N6246	2SA680								
2N6247	2SA679	_							
2N6248	2SA679								
2N6249	2SC1434			9 9					_
2N6250	2SC1434 2SC1434				+			-	+
2N6251	2SC1434 2SC1434		-	-			1250		
2N6253	2SD113	2SD151	1000			2SD250	2SD340		-
2N6254	2SD113	2SD151		-		2SD250	2SD340		-
	2SD113	230131			-	2SD249	230340		+
2N6257 2N6258	2SD113 2SD113	2SD179			-	200243		-	+
	250113							 	1
2N6259		2SD179				-		200212	1
2N6260						000175		2SD313	
2N6261					_	2SD175			1
2N6262							2SD262		-
2N6263			2SD126		2SD321				-
2N6264			2SD126		2SD321				
2N6288		2SD322							
2N6289		2SD322					199		_
2N6290		2SD322						2 1	
2N6291		2SD322							- 1
2N6292		2S D322				h said			1
2N6293		2SD322							
2N6354							2SD262		
2N6371	2SD119					2SD249			1
2N6372		2SD218					2SD88		
2N6373		2SD218		y			2SD88		
2N6374		2SD218					2SD88		
2N6383						C.		F 25 L	
2N6384									, N
2N6385						y			
2N6386			1	1					1 77
2N6387									1776
2N6388	_								
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		7	_	MA	XIMUN	A RA	ATINGS						EL	ECTRICA	L CHAR	ACTERI	STICS					OUTUNE	
TYPE	USE	MATERIAL	POUALITY	Pc	Tj	Vos	VCEO	Ic	l can	0		hfe		hfe	hie	hre	hoe	f⊺ ∗fαe	NF	Cob	Coxrbb	TO.	NOTE
		MA	PO	25°C (mW)	(°C)	(V)	(v)	(mA)	(μ A)	Vos(V)	min.		lc(mA)		(Ω)	(×10)	(po)	**fab (MHz)	(dB)	(pF)	(ps)		
29	SHP	S	Ν	30W	150	40	40	3A			15	75		20								220AB	
29A	SHP	S	N	30W	150	60	60	3A			15	75	IA	20								220AB	
29B	SHP	S	N	30W	150	80	80	3A			15	75	IA	20								220AB	
29C	SHP	S	Ν	30W	150	100	100	3A			15	75	IA	20								220AB	
30	SHP	S	Р	30W	150	40	40	3A			15	75	IA	20								220AB	
30A	SHP	S	Р	30W	150	60	60	3A			15	75	IΑ	20								220AB	
30B	SHP	S	Р	30W	150	80	80	3A			15	75	IA	20								220AB	
30C	SHP	S	Р	30W	150	100	100	3A			15	75	IA	20								220AB	
31	SHP	S	Ν	40W	150	40	. 40	5A			10	50	3A	20								220AB	
31A	SHP	S	N	40W	150	60	60	5A			10	50	3A	20								220AB	
31B	SHP	S	N	40W	150	80	80	5A			10	50	3A	20								220AB	
31C	SHP	S	N	40W	150	100	100	5A			10	50	3A	20								220AB	
32	SHP	S	Р	40W	150	40	40	5A			10	50	3A	20								220AB	
32A	SHP	S	Р	40W	150	60	60	5A			10	50	3A	20								220AB	
32B	SHP	Ś	P	40W	150	80	80	5A			10	50	3A	20								220AB	
32C	SHP	S	Р	40W	150	100	100	5A			10	50	3A	20								220AB	
41	SHP	S	N	65W	150	40	40	7A			15	75	3A	20								220AB	
41A	SHP	S	N	65W	150	60	60	7A			15	75	3A	20								220AB	
41B	SHP	S	N	65W	150	80	80	7A	77.75		15	75	3A	20								220AB	
41C	SHP	S	N	65W	150	100	100	7A			15	75	3A	20								220AB	
42	SHP	S	P	65W	150	40	40	7A			15	75	3A	20								220AB	
42A	SHP	S	P	65W	150	60	60	7A			15	75	3A	20								220AB	
42B	SHP	S	Р	65W	150	80	80	7A			15	75	3A	20								220AB	
42C	SHP	S	P	65W	150	100	100	7A			15	75	3A	20								220AB	
101	AP	S	Р	75W	150	40	40	7A	100	40	25	150	2A									220AB	
102	AP	S	P	75W	150	60	60	7A	100	60	25	150	2A									220AB	-
103	AP	S	P	75W	150	60	60	7A	100	60	30	150	IΑ			T						220AB	
104	AP	S	P	75W	150	80	80	7A	100	80	30	150	IΑ									220AB	
105	AP	S	P	65W	150	50	50	7A	100	50	25	100	2A								1.	220AB	
201	AP	S	N	75W	150	40	40	7A	100	40	25	150	2A				T					220AB	-
202	AP	S	N	75W	150	60	60	7A	100	60	25	150	2A									220AB	
203	AP	S	N	75W	150	60	60	7A	100	60	30	150	۱A									220AB	
204	AP	S	N	75W	150	80	80	7A	100	80	30	150	IA									220AB	
205	AP	S	N	65W	150	50	50	7A	100	50	25	100	2A									220AB	
370	AP	S	P	40W	150	30	30	5A	100	30	25		IA	1		_						220AB	
371	AP	s	P	40W	150	40	40	5A	100	40	40		IA									220AB	
410	AP	s	N	125W	200	200	200	7A	-	1	30	90	IΑ					4				3	
411	AP	s	N	125W	200	300	300	7A			30	90	IA					2.5			T	3	
413	AP	s	N	125W	200	400	325	7A			20	80	500					4				3	
423	AP	s	N	125W	200	400	325	7A			30	90	IA					4				3	
431	AP	s	N	125W	200	400	325	7A	0.00		15	35	2.54					4				3	
520	AP	S	N	40W	150	30	30	5A	100	30	25		IA			T						220AB	
521	AP	s	N	40W	150	40	40	5A	100	40	40		IA							-		220AB	
1000	AP	s	N	90W		60	60	8A			750		4A									3	DARLINGTO
1001	AP	s	Ñ	90W		80	_	8A			750		4A							1.		3	DARLINGTO
40022	1	G	P	12.5W		32	_				38			T				0.3				3	
40050	+	G	P	12.5W		40	_			2.	50	_				T		0.5		-		3	
40050	+	G	P	12.5W	_	50	-				50			T		T		0.5				3	-
40084	SH	-	N.	1.8W	200	60	-	IA	0.25	30	50	250	150	5					I KHZ	15		18	
40250	AP	S	N	29W	200	50	_	_	ImA	30	25	100	_			+		†	Ť			66	
40250VI	AP	S	N	5.8W	200	50	_	_	ImA	30	25	100	_	_		+						66	
40250 1	AP	S	N	117W	200	_	-	_	2mA	40	15	_	8A	1		T						3	
40251	-	G	P	12.5W		32			2	1,	30	120	<u> </u>	+		+		0.3				1	
40254	ŜP	S	Τ.	5W	200	18		700	0.25	15	70	350	50	\vdash		+	+	100		1		5	
40309	SP			29W	200			4A	10	15	20	_	IA	+	+	+	+	0.7	5	†		66	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
29	2SD235	_			2SD226		2SD291		
29A	2SD234				2SD226A		2SD292	1 17	
29B	2SD102	2SD218				2SD148	2SD292		HIDE
29C	2SD102	2SD218				2SD148			
30					2SB513			2SB507	TAIL
30A					2SB513			2SB507	
30B	2SA739					_			
30C	2SA739								132
31	2SD107					_	2SD88-I		1 1 1
31A	2SD107						2SD88-I		
31B	2SD107						2SD88-I		175
31C	2SDIII	2SD218				2SD177	2SD88A-I		1 100
32	2SA657	2SA648							1
32A	2SA657	2SA648							1
32B	2SA657	2SA648							+
32C	2SA657	2SA648							+
41	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-I		1
41A	2SD119	2SD218	2SD125A			2SD116	2SD88A-I		+
418	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-I		-
4IC	2SD119	2SD218	2SD125A	_		2SD116	2SD88A-I		1
42	2 SA663	2SA648	2007207		. +	200110	ZODOGA		-
42A	2SA663	2SA648			-	7.7			
42B	2SA663	2SA648	_		-				
42C	2SA663	2SA648			-				-
101	2SA663	2SA648			-				1.0
102	2SA663	2SA648							-
103	2SA663	2SA648						,	-
103									
105	2SA663	2SA648					7.		
201	000110	000010	0001051						
	2SD119	2SD218	2SD125A			2SDI16	2SD88A~I		
202	2SD119	2SD218	2SD125A			2SD116	2SD88A-I		ļ
203	2SD119	2SD218	2SD125A			2SD116	2SD88A-I	9.11	Sec. 357
204	2SD119 '	2SD218	2SD125A			2SD116	2SD88A-I	1 2 7 7 7	
205	2SD119	2SD218	2SD125A			2SD116	2SD88A-I	323	
370	2SA658	2SA627	_				d of		- 10
371	2SA658	2SA627	_			La la la la la la la la la la la la la la			
410			. 758			2SC1229			
411						2SC1227			
413				55,0000		2SC1230			E
423						2SC1230			
131						2SC1230			
520	2SD107	2SD188					2SD338		100
521		2SD188					2SD338		
000									
1001									2.5
10022		-							351
10050								- 5	
10051								-	111
0084			2SD120						'ak
0250		2SD155			2SD226			2SD315	
0250VI		2SD155			2SD226			2SD315	
0251	2SD114	2SD151	2SD341	,	- 35220	2SD250	2SD340	200310	
0254		200.01	200041	, ,		LUDEN	230340		4 1113
0309			2SC1162	2SC1014	2SC1226		-		A LANCE
		2SD155	LOUTION	2001014	2001220			100 P 6.38	NAME OF BRIDE

RCA

1 19.7				M/	AXIMU	M R	ATINGS	3					EL	ECTRICA	L CHAR	ACTER	STICS						
TYPE	USE	MATERIA	POLALITY	Pc	Tj	Vos	VCEO	Ic	los	0		hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb	OUTLINE TO.	NOTE
		MA	POL	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	max.	lc(mA)		(Ω)	(×Ī0)	(µ7)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
40311	SP	S	N	5W	200	30		700	0.25	15	70	350	50	ģ				100				5	
40312	SP	S	N	29W	200	60		4A	10	15	20	120	IA					0.75				66	
40313	SP	S	N	35W	200	300		2A			40	250	100									66	
40314	SP	S	-	5W	200	40		700	0.25	15	70	350	50					100				5	
40315	SP	S	-	5W	200	35		700	0.25	15	70	350	_					100				5	
40316	SP	S	-	29W	200	40		4 A	10	15	20	120	IA					0.75				66	
40317	SP	S	-	5W	200	40		700	0.25	15	40	200	_			-						5	
40318	SP	S		35W	200	300		2A	0.05		50	200	500			-		100		-		66 5	
40319 40320	SP	S	-	5W 5W	200	40		700 700	0.25	15	35 40	200	50 10			-		100		-		5	
40321	SP	S		5W	200	300		/00 I A	0.25	15	25	200								-		5	
40321	SP	S	_	35W	200	300		2A			75	200	500						-			66	
40322	SP	S		5W	200	10		700	0.25	15	70	350						100	-		-	5	
40324	SP	S	-	29W	200	35		4A	10	15	20	120		- 8		+		0.75				66	
40325	SP	S		117W	200	35		15A	5mA	30	12	60		- 10				0.70	_			3	
40326	SP	S		5W	200	40		700	0.25	15	40	200				-					_	5	
40327	SP	S	-	5W	200	300		LA			40	250				-						5	
40328	SP	S	-	35W	200	300		2A			40	\vdash	20								\top	66	
40346	SP	S	N	10W -	200	175		IA			25		10									5	
40346VI	SP	S	N	10W -	200	175		IA			25	T.	10									5	
40346V2	SP	S	N	4W	200	175	-	IΑ			25		10									5	
40347	AP	S	N	8.75W	200	60	40	1.5A			25	100	450									5	
40347VI	AP	S	_	4.4W	200	60		1.5A			25	100										5	
40347V2	AP	S.		11.7W		60		1.5A			25		450						, i			5	
40348	AP	S		8.75W		90	65	1.5A			30	125					<u> </u>	<u>.</u>				5	
40348VI	AP	S	_	4.4W	200	90		1.5A			30	125	300								-	5	
40348V2	AP	S	-	11.7W	200	90	65	1.5A			30	125	300				_					5	
40349	AP	S	-	8.75W	200	160		1.5A			30	125					-					5	
40349VI	AP	S		4.4W	200	160		1.5A			30	125	150					-		-	-	5	
40349V2 40360	AP SP	S	_	11.7W 5W	200	160 70		1.5A 700			40	200	150					100	_			5	
40361	SP	S		5W	200	70		700			70	350				-		100				5	
40362	SP	S		5W	200	70		700			35	200						100			+	5	
40363	SP	S	_	115W	200	70		15A			20	70						0.7				3	
40364	SP	S	-	35W	200	60		7A			35	175						15				66	
40366	-	Ť	-	5W	200	120	65		2nA	60	40		150					1			-	5	
40367			_	5W	200	100	_	1.5A	4	30	35	100										5	
40368			_	25W	200	100	55		9	30	35	100										8	
40369			N	75W	200	100	55	6A	10	30	25	75	1.5A									3	
40372	AP	S	N	25W	200	90	55	4A			25	100	500									66	
40373	AP	S	N	25W	200	160	140	3A			25	100	500					0.8				- 66	LE
40374	AHP	S		5.8W	200	250	175				40		100									66	
40375	SP	S		5.8W	200	120	50		5mA	40	50	200	_	6						175		66	
40385				5W	200	450	350				40	160	20									5	
40389	SH	S	_	3.5W	200	60		700	0.25	30	50	250	150					L	<u> </u>	15	_	5	
40390	АН	S	_	3.5W	200	300		IA			40	160	20					<u> </u>		10		66	
40391	AP	S	_	3.5W	200	60	40	IA	0.25	30	50	250	150				-			ļ		5	
40392	SH	S	_	7W	200	60		700	0.25	30	50	250						-		15	1	5	
40394	AP	S	L	7W	200	60		1A	0.25	30	50	250	150				-	100				5	
40406	SH	S	P	IW	200	50		700	0.05	. 10	30	200	_			-	-	100		1.5	+	5	
40407	SH	S	N	IW	200	50		700 700	0.25	10	40	200	10				-	100		15	-	5	
40408 40409	SH	S	N	IW 3W	200	90	_	700	<u> </u>		50	200	150		<u> </u>			100			-	5	
40409	SH	S	P	3W	200	90		700			50	250	150					100			1	5	
40410	SHP	S	N	150W	200	90		700 30A			35	100	_					0.8		-	+	3	
40411	John	3	IN	112044	200	90		JUA			35	100	4A					10.8			1	L	

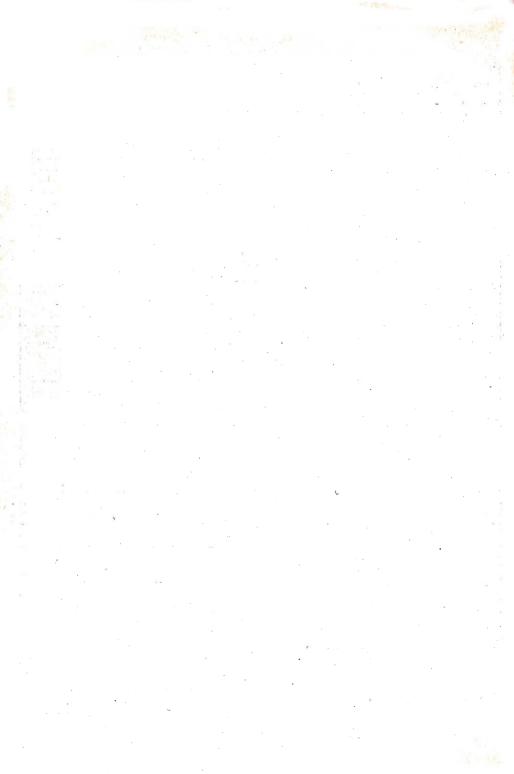
1	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
40311	2SC1173	2SC 204	2SD120	2SC1014	2SC1226				
40312		2SD155			2SD226A				
40313	2SC1433					2SC1463			
40314	2SC1173	2SC 204	2SD120	2SC1014	2SC1226				
40315	2SC1173		2SD120	2SC1014	2SC1226				
40316		2SD155			2SD226A				
40317	2SC1173	2SC 204		2SC1014	2SC1226				
40318	2SC1433					2SC1463			
40319				2SA624			2SA761		
40320	2SC1173	2SC 204		2SCI014	2SC1226	1			
40321	2SC782				2SD198	2SD159			
40322	2SC1433					2SC1463			
40323	2SC1173	2SC204		2SC1014	2SC1226				
40324		2SD155			2SD226A				
40325		2SD151	2SD341			2SD250	2SD340		
40326	2SC1173	2SC 204	10.00	2SC1014	2SC1226				
40327					2SD198	2SD159			
40328	2SC1433					2SC1463			
40346						2SD251			
40346VI						2SD251			
40346V2						2SD251			
40347	2SD234			2SD361			2SD292		
40347V1	2SD234			2SD361			2SD292		
40347V2	2SD234			2SD361			2SD292		,
40348			2SD121		2SD226B	2SD185	2SD292		
40348VI			2SD121		2SD226B	2SD185	2SD292		
40348V2			2SDI21		2SD226B	2SD185	2SD292	1	
40349						2SD251			
40349VI						2SD251			
40349V2						2SD251			
40360	2SC1173	2SC 204		2SCI155					
40361	2SC1173	2SC 204		2SC1155					
40362							2SA761		
40363		2SD181	2SD341			2SD250	2SD340		
40364			2SC1055						
40366	2SC782		2SD121			2SC1031			100
40367	2SC782	_	2SD121			2SC1031			
40368	2SD 102				2SD334				
40369	2SD				2SD334				12
40372	2SD102			-	2SD334			-	
40373					2SD334		(1) (1) (1) (1) (1)	10/27	
40374					2SD198				
40375									
40385	2SC1171	2SC1101	2SC1174	2SCI153					1 1 1 1 1 1
40389		2SD79	2SD121	2SD356		2SD185			N. P.L.
40390					2SD198	2SD159			1
40391				2SB524					1
40392	2SD234			2SD361			2SD292	1000	
40394				2SB524				200	
40406		2SA 607			2SA752		_	1107/11	
40407	2SC512	2SC95,9	2SC1212A		2SC1407			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
40408	2SC1381			,	2007-07			2SC614	A11
40409	250511	2SC1266	,	2SC448		2SC1069		200017	321
40410							2SA761	CHARLES	
40411	2SD114	2SD132	2SD341			2SD250	2SD340		

		7	7	M/	XIMU	M R	ATINGS	i					ELL	CTRICA	L CHAR	ACTER	ISTICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	VCEO	lc .	læ	_		hfE		hfe	hie	hre	hoe	fτ *fαe **fαh	NF (an)	Cob	Coxrbb	OUTLINE TO.	NOTE
			_	(mW)	(°C)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	lc(mA)		(Ω)	(×10)	(µ7)	**fab (MHz)	(dB)	(pF)	(ps)		
40412	SP	S	N	10W	200	250	_	IA			40		30									5	
40412VI	SP	S		4W	200	250		IA			40		30									5	
40412V2	SP	S	_	10W	200	250		IA			40		30			-				-		3	
40421	_	G	P	12.5W		75					62	175				-		2		. /		3	
40439	\vdash	G	_	5W		320					_	_	-			├		-		-		3	
40440		G		5W		200			14							-	_	0.6		-	-	3	_
40462	-	G		12.5W		40					50					-		0.6			+	8	
40484	15	S		25W	150	55	_	C A			50 25	100	2.4					-			-	219AB	
40513 40514	AP	S		83W 83W	150 150	45 45		6A 6A		-	25		3A			-		_				219AA	
40514	SH	S	_	5W	150	55		700		-	50	300	50			-	-	100			+	5	
40537	SH	S	_	5W		55		700		-	15	_	500			-		100		-		5	
40538	AH	S		5W		55		700	_		15	90	500			-		100		_	+-	5	
40539	AH	S		83W		50	_	6A	_	-	20		2.5A					2.8			+	3	
40542	AH	S	-	83W		60	-	8A			20	70	3A			-		2.8		_	+	3	
40543	AH	S	_	7W		50		700		-	35	200	50		<u> </u>		+	100	<u> </u>	+	-	5	
40546	АП	S	IN	8W		30	- 1	700		-	50	200	,50		-			25			+	66	
40594	AP		N	10W		95	-	2A	-		70	350	300		-	-		+				5	
40595	AP	S		10W		95		2A		-	70	350	300		<u> </u>				_		+-	5	
40595	AP	S	_	5W		25		700	0.5	15	70	500	50			\vdash						5	
40612	AP	G		12.5W		25		700 5A	3	30	30	150	IA			-			-			3	
40613	AP	S		36W		25	_	4A	2	25	30		IA				 					66	
40616	AP	S	-	5W		32		700	0.5	15	70	_	50					-				5	
40618	AP	S	_	36W		30		4A	2	30	30		IA			_					-	66	
40621	AP	S		36W		32	-	4A	0.5	30	25	100	1.5A			-		-	-		+	66	
40622	AP	S	_			40		4A	0.5	30	25	100	1.5A			_				1	+	66	,
40623	AP	G	P	12.5W		45		5A	500	30	50	170				 				١.	+	3	
40624	AP	S	Ľ.	50W		45		6A	300	- 50	20	-	2.5A		_	-	-			<u> </u>	-	66	
40625	AP	S	_	3.5W		45		1A	0.25	60	100	300	150			+	_	-			_	5	
40625	AP	G	P	12.5W		55		5A	500	30	50	170	IA						-		+	3	N
40627	AP	S	_	50W		55		6A	300	30	20	100	2.5A			1		 			+-	66	
40627	AP	S	N		-	55		IA	0.25	60	100		150			_		\vdash			+-	5	
40629	AP	S	N			35	_	4A	0.23		20		IA		_	-			 			66	
40630	AP	S	N	36W		40	-	4A		-	20	70	1.5A		_			1				66	
40631	AP.	S	N	36W		45		4A		-	20	-	2A					1				66	
40632	AP	S	N	-		60		6A		-	20		3A					-			+	66	
40632	AP	S		83W		75		8A	-	1	20		4A					+	<u> </u>	_	+-	- 3	
40634	AP	S	P	5W		75		700	-	<u> </u>	50	250	150	-				\vdash		_	+	5	
40635	AP	S	N	_		75		700		-	50	_	150			\vdash				_	+	5	
40636	AP	S	N			95		15A			20	70	4A			\vdash	_		+		+	3	
40637	Air	S	N		-	30		154		-	-	,,,		<u> </u>			+	300	\vdash		+	52	
40850	AP	S	N		-	450	300	2A	-		25	-	750				 	1	 	+	+	66	
40851	AP	S	N	45W	-	450	350	7A		 	12		1,2A								\top	66	
40852	AP	s	_	100W		450	350	7A			12		1.2A									3	_
40853	AP	S	N	_		450	300	10A			10		5A	<u> </u>	t			\vdash			1	3	
40854	AP	S		110W	-	450	300	15A		+	10	_	10A			\vdash		\vdash	T-		+	3	
40885	SHP	S	N		135		250	1A	50	240		190	20	25		\vdash				1	+		
40886	SHP	-	N		135	350	300	IA	50	280	30		20	25		+	1	+		+	+		
40887	SHP	-	N		135	450	350	IA	20	360	30	-	50	25		+				1	+	1.	
40910	AP	S	N	29W	200	50	40	3A		500	20	_	1.5A	ات ا		-		+	1	1	1	66	
40911	AP	S	N		200	90	85	4A			25	100	1.5A	-			\vdash				1	66	
40912	AP	S	N	_	200	140	120	3A			20		500	<u> </u>			1	0.8		1	+	66	
40913	AP	S	N	50W	200	170	150	3A	_		20	60	IA				1	0.8		1		66	
45190	AP	S	N	40W	150	40	40	7A	100	40	25	100	1.5A					2		T		220AB	
45191	AP	s	N	+	150	60	60	7A	100	60	25	-	1.5A	-	_	+	+	2	+	+	+	220AB	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
40412					2SD198	2SD159			+
40412VI					2SD198	2SD159			
40412V2					2SD198	2SD159			
40421								-	
40439									
40440									
40462									
40484	_				00.25				
40513	2SDIII	2SD323	2SD125			2SD196	2SD88		
40514	2SDIII	2SD323	2SD125			2SD196	2SD88		
40537	2SA597			2SA645			2,SA761		
40538	2SA597			2SA645			2SA761		
40539	2SC547	2SC1160			2SC1155				
40542	2SD111	2SD322					2SD339		
40543	2SDIII	2SD 322					2SD339		
40544		2SC1160	2SC819	2SC1155		2SC798			
40546				_					
40594		2SD285	` .				2SC756		
40595	2SB502								
40611		2SC1333		2SC1355					
40612	-		2SB337		2SB128			2SB407	_
40613		2SD188			2SD189		2SD338	2SD315	
40616	<u> </u>	2SC1160		2SC1155					
40618		2SD188					2SD338		
40621		2SD188					2SD338		_
40622		2SD188					2SD338	ļ., —	_
40623		000100	2SB337	2SB138	2SB128			2SB407	
40624 40625		2SD188			12		2SD338		
40625		2SC1098	20022	2SC1014	000100				
40626		2SD188	2SB337	2001214	2SB128		200222	2SB407	
40627			-	2SC1314 2SC1014			2SD338		-
40629	· · · ·	2SC1098 2SD188	-	2SC1014 2SC1314	2SC189		200220		
40630		2SD188			2SC189		2SD338 2SD338		
40631		2SD188		2SC1314	2SC189		2SD338 2SD338	_	
40632	_	2SD188		2SC1314	2SC189		2SD338	-	_
40633		230100		-	230169			<u> </u>	
40634	-					(8)	2SD339	_	
40635		2SC1160					2SA761		
40636	2SDIII	2SD151				2SD250	2SD340		_
40637	202771	200101		-		200230	200340		_
40850	2SC1433								
40851	2SC1433								
40852	2SC1434	_	-						
40853	2SC1434								
40854	2SC1434				-				_
40855					2SD198				
40886	2SC1433								
40887	2SC1433							-	
40910		2SD335							_
40911	76						2SD338		
40912	2SD110	2SD297					2SD45		_
40913	-		2SD126		2SD321		2SD45		
45990	a	2SD322		·		4	2SD316		
45191	T.	2SD322		_			2SD316		

		7	_		XIMU	M R	ATINGS	3			.—		EL	ECTRICA	L CHAR	ACTER	STICS			,	_	OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Ti (*c)	Vos	VCEO	lc (=4)	los	_		hre		hfe	hie (Ω)	hre	hoe	ft *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb	TO.	NOTE
15192	AP	S		(mW) 40W	(*c)	(v) 80	(v) 80	(mA) 7A	(μA) 100	Vœ(V)	min.		Ic(mA)		(52)	(×10)	(μο/	(MHz)	(00)	(pr)	(µs)	220AB	
							_			_	20							_			 	_	
15193	AP		Р	40W	150	40	40	7A	100	40	25		1.5A					2				220AB	
15194	AP	S	Р	40W	150	60	60	7A	100	60	25		1.5A					2				220AB	
15195	AP	S	Р	40W	150	80	80	7A	100	80	20	80	1.5A					2				220AB	
-			Н																				
																					-		
	-	-							_	-		-											
									1000 E														FAMI
	-	-	-										_										+ A IVII
CH2102	SH		N	5W		60	60		10	60	50		150					<u> </u>				CHIP	2N210
H2270	SH	S	N	5W		45	45		10	60	50		150	-			_	<u> </u>	-		1	CHIP	
CH2405	SH	S	N	5W		90	90		10	60	50		150				<u> </u>			L		CHIP	2N210
CH3053	SH	S	Ν	5W		30	30		10	60	50		150								1.	CHIP	2N21
CH3439	AΗ	S	Ν	10W		325	325	IA	20	200	30		20					L				CHIP	2N34
CH3440	ΑН	S	Z	10W	,	250	250	IΑ	50	200	30		20									CHIP	2N34
CH4036	S	S	Ρ	7W		65	65		10	60	35		150								1	CHIP	2N40
CH4037	S	S	Р	7W		40	40		10	60	35		150									CHIP	2N40
H5320	SP	S	N	10W	-	80	80		10	60	30		250									CHIP	2N53
CH5321	SP	S	N	10W		55	55		10	60	30		250									CHIP	2N53
CH5322	SP	S	P	IOW		80	80		10	60	30		250								<u> </u>	CHIP	2N53
CH5323	SP	S	P	10W		55	55	_	10	60	30		250						·			CHIP	2N53
5115525	-		<u>-</u> -			- 55		-	''	00	- 00		200		-						+	0	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
45192		2SD322		_			2SD316		
45193			2SB333		2SB430		2SB518		
45194			2SB333		2SB430		2SB518	_	
45195			2SB333		2SB430		2SB518		
				_					
						_			
CH2102	E.	2SD152				2SD159			
CH2270	7	2SD152		_		2SD159			-
CH2405 CH3053		2SD152 2SD152				2SD159	l'		
CH3053 CH3439		250152			2SD199	2SD159		1	1
CH3439					2SD199				
CH4036				2SB526	205133				
CH4037		. 2		2SB526					†
CH5320		2SD285					ď		
CH5321		2SD285					1		1
CH5322	2SB502				2SB128A				
CH5323	2SB502				2SBI28A				
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GENERAL ELECTRIC

	1				XIMUM	RA	TINGS						FLF	CTRICAL	L CHAR	ACTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Υj	Vos	V ceo	lc	lo	190		hre		hře	hie	hre	hoe	fr	NE	Cob	Cox rbb'	OUTLINE	NOTE
	USE	MAT	20.	25℃ (m₩)	(2)	(V)	(V)	(mA)	l	Vos(V)	m in .	max.	Ic(mA)	"""	(Ω)	(×10)		*fae **fap (MHz)	(dB)	(pF)	(ps)	TO-	NOTE
2N34	A.	G	Р	50		25			1,2				Textitorio					(mn2)	1				-
2N34A	A	G	P	50		25							-					 					_==
2N36	Α	G	Р	50	50	20										<u> </u>							
2N37	Α	G	Ρ	50	20									30									
2N38	Α	G	Р	50										15									
2N38A	Α	G	Р	50	20	20					L		L					J					
2N41	A	G	P P	50 240	0.5	25					-										<u> </u>		0.5
2N43 2N43A	A	G	P	240	85 85	45 45	30		-		34	CF	20	30				500					GE
2N44	A	G	P	240	85	45	30	ļ			18	65 43	20	30	 -	ļ		500					GE GE
2N44A	A	G	P	240	85	45	30				18	43	20					500					GE
2N46	Α	G	Р	50		25					-												
2N47	Α	G	Р	50		35																	
2N48	Α	G	Р	50		35																	
2N49	Α	G	Р	50		35				Ш													
2N54	Α	G	Р	200	60	45				Ш													
2N55	A	G	Р	200	60	45				Ш			ļ							<u> </u>	L.		
2N56 2N59	A	G	P P	200	or.	60	45			Н					<u> </u>	<u> </u>		<u> </u>	-				
2N59 A	A	G	P	180	85 85	25 40	25 40			\vdash		-			-			<u> </u>	-				
2N60	A	G	P	180	· 85	25	25																
2N60A	A	G	Р	180	85	40	40												-				
2N60B	Α	G	Р	180	85	50	50						-										
2N60C	Α	G	Р	180	85	50	60				_												
2N61	Α	G	Р	180	85	25	25																
2N61A	Α	G	Р	180	85	40	40																
2N61B	Á	G	Р	180	85	50	50																
2N61 C	A	G	P P	180	85	60	60																
2N63 2N64	A	G	P	102	85 85	44 30	30																
2N65	Ā	G	P	102	85	24	24																
2N73	SC		P	200			50					-											
2N74	S	G	Р	200			50																
2N75	S	G	Ρ	200			20																
2N76	Α	G	Р	5 W	60	20												500					
2N77	Α	G	Р	35		25																	
2N79	Α	G	P	35		35																	
2N80 2N81	A	G	P	50 50	100	₹25	20			\vdash				20									
2N82	A	G	Р	35	71	20	20				20	60	1	20									
2N96	A	G	P	50		30						90				H	-	500					
2N104	A	G	Р	1.50	70	30																	· -
2N105	Α	G	Р	35	50	35																	
2N106	Α	G	Р	102	85	6																	
2N108	Α	G	Ρ	50																			
2N109	A	G	Р	165	71	35	25			_		115	50	50		Щ							
2N122 2N130	AP	S	N P	8.7 W	150	120				_	3		100										
2N130 2N130A	A	G	P	85 1.00	85 85	44 45	40			\dashv			ļ	14									
2N130A	A	G	Р	85	30	40	40			\dashv	-			14		\vdash			-				
2N131'A	A	G	P	100	85	45	30			\dashv	\dashv			27									
2N132	Α	G	Р	85	85	24										Н							
2N132A	Α	G	Р	100	85	35	20																
2N133	Α	G	Р	85	85	30																	
2N133A	A	G	Р	100	85	35	20																

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N34	2SB56		2SB77		2SB172				1
2N34A	2SB54		2SB75		2SB172		1		1
2N36									
2N37	i								
2N38									
2N38A									
2N41								(沖)	
2N43	2SB415	2:SB224		2SB458A	2SB178A			2SB198	
2N43A	2SB415	2SB 224		2SB458A	2SB178A			2SB198	
2N44	2SB415	2SB224	2SB156A	2SB458A	2SB178A			2SB198	
2N44A	2SB55	2SB 224	2 S B 7 5 A	2SB 458A	2SBI78A			2SB198	
2N46									
2N47								-	
2N48 -								-	
2N49	ļ							-	
2N54								ļ	
2N55		1		205.454				-	+
2N56			******	2SB 454				-	+
2N59	2SB415	2SB223	2SB370A		2SB324				
2N59A	2SB415	2SB224	2SB370 A	2 SB 454	2SB324			-	+
2N60	2SB415	2SB223	2SB370 A		2SB324				+
2N60A	2SB415	2SB224	2SB370 A		2SB324			 	
2N60B									+
2N60C									
2N61	2SB415	2 SB223			2SB324			_	+
2N6LA	2SB415	2 SB223			2SB324				_
2N61B					2SB177 2SB177			+	
2N61C			00075.4					-	+
2N63	2SB56		2SB75 A		2SB177			+	+
2N64	2 S B 5 6		2SB75A		2SB177	•		-	+
2N65 2N73	25856		2SB75A	2SB 454	2SB175				+
2N73 2N74				2SB 454					+
2N75	-			230 434					+
2N76	<u> </u>	-							_
2N77	2SB54		2SB75		2SB175			2SB185	_
2N79	23634		23073		238173	-	2	200103	+
2N80									+
2N81									+
2N82	l								+
2N96					-				+
2N104	2 SB55		2SB75 A	-	2SB175			2SB185	1
2N105	2 SB55	+	2SB75A		2SB175			2SB185	+
2N106	2SB440	^	2SB73	2SB134			2 S B 3 8 2	<u> </u>	
2N108	1		1	1					
2N109	2 SB56 A		2SB77 A	2SB135	2SB172			2 SB185	\top
2N122		2SB241A							
2N130	2SB56A		2SB75A		2SB177				
2N130A	2SB56A		2SB75A		2SB 77	_			
2N131	2SB56A		2SB75A		2SB177				
2N131A	2SB56A		2SB75A		2SB177				T
2N132	2SB54		2SB75A	2-SB 135	2SB173			2SB185	
2N132A	2SB56A	1	2 SB75A		2SB177				1
2N133	2SB 56 A		2 SB75A	2SB 135	2SB177				T -
2N133A	2SB56A		2 SB75A		2SB177				

		1	-	M/	AXIMUM	RA	TINGS					-	- ELI	CTRICAL	CHAR	ACTERIS	STICS	-	-	_	-		-
TYPE	USE	ER	5	Pc 25°C	Tj	Voa	Vaso	lc	1	180		hre		hfe	hie	hre	hoe	ft	NF	Cob	Coxitab	OUTLINE	NOTE
111-2	032	MATERIAL	POLALITY	25°C (mW)	(7)	(V)	(V)	(mA)		V _{CB} (V)	min.	max.	Ic(mA)		(Ω)	(×10)		ft. *fae *efap (MHz)	(48)	(pF)	(ps)	то.	HOTE
2N138	A	G	P	50	50	24																	
2N138A	A	G	P	150	85	45	30				10		50										
2N139	A	G	P	80	70	16						1									T		
2N140	A	G	P	80	70	16																	
2N175	AH	G	P	50	71	10																	
2N180	A	G	Р	150	75	30																	
2N181	A	G	P	250	75	30																	
2N185	A	G	P	150	50	20												,					
2N206	A	G	P	75		30																	
2N207	A	G	P	50	65	12	12							35									
2N207A	A	G	P	50	65	12	12							35									
2N207B	A	G	Р	50	65	12	12							35									
2N217	Α	G	Р	150	71	35	25				65	115	50										
2N220	A	G	Р	50	71	10																	
2N223	Α	G	Р	100	65		18							39		П							
2N224	A	G	Р	250	75	25					60	120	100										
2N225	Α	G	Р	250	75	25					60	120	100										
2N226	A	G	Р	250	75	30					35	105	100										
2N227	Α	G	Р	250	75	30					35	105	100										
2N237	Α	G	Р	150	55	45								0.98				500					
2N238	Α	G	Р	50	60	20																	
2N265	A	G	Р	75	85		25											1.5					
2N270	Α	G	Р	150	50	25																	
2N272	Α	G	Р	150	85	30	10							60									
2N273	A	G	Р	150	85	45	25				30		50			\Box							
2N281	Α	G	Р	167	75	16					120				_			0.35				-	
2N291	Α.	G	Р	180	50	15								.30				0.00					
2N319	A	G	P	225	85		20																GE
2N320	A	G	Р	225	85		20										,				1		GE
2N321	A	G	Р	225	85		20																GE
2N322	A	G	P	140	60	18.	18				34	65	20					1					GE
2N323	A	G	Р	140	60	18	18				53	125	20					1.5					GE
2N324	A	G	Р	140	60	18	18				72	198	20					2					GE
2N331	A	G	Р	200	71	30																	
2N343A	A	s	N	ΙW	150	60	60							0.966									
2N359	A	G	Р	170	85	25	18				100	300	50										,
2N360	A	G	Р	170	85	32	30	ME (50	150	50										
2N361	A	G	Р	170	85	32	30				25	75	50										
2N362	Α	G	Р	170	85	25	18							50									
2N363	A	G	Р	170	85	32	28							25				.					
2N367	S	G	Р	100	75	30								9				300		_			li m m
2N368	S	G	Р	100	75	75	30							19				400					
2N369	S	G	Р	100	75	30								49				500					
2N381	A	G	Р	200	100	50	25				35	65	20	35									
2N382	Α	G	P	200	100	50	25				60	95	20	70		\Box							
2N383	A	G	Р	200	100	50	25		_		75	120	20	90								\neg	
2N398	SP	G	Р	50	55	105	105				20		5										
2N398A	Α	G	Р	150	100		105				20		5	20		\Box							1
2N402	A	G	Р	180	85	25	20									\Box							
2N403	A	G	Р	180	85	25	20																
2N404A	S	G	Р	150	100	40	35			\vdash	30		12					4					GE
2N405	A	G	Р	150	71	20																	
2N496	Α	G	Р	150	71	20																	
2N407	Α	G	P	150	71	20				\vdash						\vdash							
2N408	A	G	P	150	71	20	-									\vdash							

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA`	FUJITSU	SONY	SANYO	NOTE
2N138	2SB56 A	-	2SB77 A	2SB136					-
2N138A							×		
2N139		*							
2N140									
2N175	2 S B 56		2SB73	2SB134			2SB380	110	
2N180	2 S B 5 6 A		2SB77 A	2SB136	2SB172				
2N181	2SB56A		2 SB 89 A				J		
2N185 -	2 S B 5 6 A		2SB77 A	2SB136	2SB172				
2N206	2SB94		2SB75 A	= 2SB135	2SB173				100
2N207	2SB94		2SB75 A	2SB135	2SB173				
2N207A	2SB94		2SB75 A	2SB135	2SB173				(
2N207B	2SB94		2SB75A	2SB135	2SB173				11
2N217	2SB56A				·				
2N220	2SB439			2SB134			2SB378		
2N223	2SB56A		2SB156 A	2SB495	2SB324				
2N224	2SB421		2SA555	2SB495	2SB324				
2N225	2SB421		2SA555	2SB495	2 SB324				
2N226	2SB421		2SA555		2 SB324				
2N227	2SB421		2SA555		2SB324			.1	
2N237	2 S B 5 5	2SB 224	2SB77A	2SB136A					100
2N238	2SB56	,	2SB77 A	2SB136					
2N265	2SB94		2SB75 A	2SB135	2SB171				
2N270	2SB415		2SB156 A	2SB495	2 SB324		N 8 L		
2N272	2SB56 A	, , , , ,	2SB77	2SB136			V 2 1		100
2N273	2 SB53		2SB75 A	2SB136	2SB177		71 7	11 14 1	
2N281	2SB56	2SB 164	2SB77 A	2SB136				1 - 1 - 1	2 (4)
2N291	2SB421	2SB 64	2SB156 A	2SB495	2 SB324				
2N319	2SB421	2SB 164		2 SB495	2SB324				
2N320	2SB421	2SB 64		2 SB495	2SB324				
2N321 -	2SB421			2 SB495	2SB324				
2N322	2SB421		2SB156A	2SB495	2SB324				
2N323	2SB421		2SB156 A	2 SB495	2SB324				
2N324	2SB421		2SB156A	2SB495	2SB324				
2N331	2SB53								
2N343A									
2N359									
2N360	2SB421			2SB495	2SB324				
2N361	2SB421			2SB495	2SB324			4.5	
2N362	2SB56A		2SB77	2SB136					
2N363	2SB56A		2SB77A	2SB136					
2N367	2 S B 5 6 A		2SB77A	2SB135					
2N368	2SB56A		2SB77 A						1
2N369	2SB56A		2SB77 A	2SB135					1
2N381	2SB421				2SB324	7			T -
2N382	2SB421		İ		2SB324				T
2N383	2SB421		İ		2SB324				1
2N398			*						1
2N398A									1
2N402	2SB365	2SB223	2SB370 A	2SB457A	2SB324				T
2N403	2SB365	2SB223	2SB370 A	2SB457A	2SB324				
2N404A									+
2N405	2SB94		2SB77	2SB135	2SB173				
2N406	2SB94		2SB77	2SB135	2SB173				1 10
2N407	2SB56A		2SB77	2SB136					
2N408	2SB56A		2SB77	2SB136					1.5

				MA	XIMUM	RA*	TINGS					_	ELE	CTRICAL	CHARA	CTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc	Tj	Vas	Voso	lc	lo	180	Ι.	hre		hfe	hie	hre	hoe	fT etge	NF	Cob	Coxitob	OUTLINE	NOTE
	001	MAT	POL	25℃ (m₩)	(7)	(V)	(V)	(mA)	(µA)	γ ₀₈ (γ)	min.	max.	Ic(mA)		(Ω)	(×10)		*fae **faD (MHz)	(dB)	(pF)	(ps)	TO.	-5-5-6
2N460	A	G	Р	200	100	45					16	32											
2N461	A	G	Р	200	100	45	Ī.				32	100											
2N462	S	G	Р	150	75	40					20		200					500					
2N464	A	G	Р	150	85	45	40																
2N465	Α.	G	Р	150	85	45	30	_															
2N466	A	G	Р	150	85	35	20				-												
2N467	A	G	P	150	85	35	15	-		 								 					
	-	-	H			- 50					-												
											\vdash		<u> </u>			-		1					
	-	-	-							╁													
2N497	A	S	N	4 W	200	60	60		_		12	36	200										
2N497A	A	S	N	5 W	200	60	60				12	36	200										
2N498	A	S	N	4 W	200	100	100			-	12	36	_	-				 					
		G	P	4 11	200	700	100	<u> </u>			12	30	200				 -	 					
2N505		-	P	50	0.5	40		<u> </u>		-	25	EO	EC			\vdash		500	_				
2N506	A	G	-		85	40	, .	200	.	1.0	25	50	50	110	20	-	0.4	_	I KHZ	18		5	GE
2N508	A	G	P	200	100	18	18	200	4	16	99	198	20	110	28	7	0.4	2.5	1 KHZ		-	5	
2N508A	Α	G	Р	200	100	30	30	200	4	25	100		20	75	26	7	0.4	2.5		18	<u> </u>	-	GE
2N524	Α	G	Р	225	100	45	30	500	35	30	25	42	20	18	26	1	0.1	800	1 KHZ 5	18		5	GE
2N525	Α	G	Р	225	100	45	30	500	50	30	34	65	20	30	26	1	0.1	1	1 KHZ	18		5	GE
2N526	Α	G	Р	225	100	45	30	500	70	30	53	90	20	44	26	1	0.1	1,3	1 KHZ 3	18	_	5	GE
2N527	Α	G	Р	225	100	45	30	500	95	30	72	121	20	60	26	t	0.1	1.5	1 XHZ .	18		5	GE
2N534	Α	G	Р	25	65	50	50			Г	Ī			35						1			
2N535	Α	G	Р	50	85	20	20			Π				35									
2N535A	Α	G	Р	50	85	20	20							35									
2N535B	Α	G	Р	50	85	20	20							35	_		,			-			
2N536	S	G	Р	50	85	20	20				100		30					T					-
2N563	S	G	Р	150	85	30	25				10	30				\vdash							
2N564	S	G	P	120	85	30	25				10	30	 					T					
2N565	S	G	P	150	85	30	25		_	_	30	50				+						-	
2N566	S	G	P	120	85	30	25		-		30	50				_			,				
2N567	S	G	P	150		30	25			-	50	70						 			-	H. —	
2N568	S	G	P	120	85	30	25				50	70									 		
	_		P	120	85	_	20				70					1					-		
2N570	S	G	P		85	30	_				-	100	_	-		-		-			-		
2N571	S	G		150	85	30	10			-	100					-	<u> </u>	-					
2N572	S	G	P	120	85	30	10			-	100					-	-					-	
2N586	S	G	Р	250	85	45			ļ	-	35		250			-		-				\vdash	
2N591	Α	G	P	50	71	32	32	ļ		_	L .			_		<u> </u>				ļ	-	\vdash	
2N592	S	G	Р	125	85	20	20				20	<u> </u>				ļ.,		<u> </u>					
2N593	S	G	Р	125	85	40	30				30	<u> </u>						L			_		
2N597	S	G	Р	250	100	45	40			_	40		100					3					
2N599	S.	G	Р	250	100	30	20				100		100					01			<u> </u>	ļ.,	
2N609	Α	G	Р	180	85	25	15		L	L	L	L			L	<u> </u>		L					
2N610	Α	G	Р	180	85	25	15										L^{-}						
2N611	Α	G	Р	180	85	25	15					ļ											
2N612	Α	G	Р	180	85	25	15					T											
2N613	Α	G	Р	180	85	25	15													_			
2N631	A	G	+	167	85	25	20			_								t					
2N632	A	G		167	85	36	20			_	\vdash	_						t					
2N633	A	G	P	167	85	35	30			+	<u> </u>	 	t	<u> </u>			-	t			 		
2N650	A	G	P	200	100	45	30		 	+	30	 	10	30		+		0.75					
	┈	G	-	_	100	45				+	33	-	_	30		+	-	0.75					
2N650A	A	-	_	200	_		30		-		-	-	10	-	\vdash	+		_			<u> </u>	\vdash	
2N651	A	G	+	200	100	45	30		<u> </u>	-	45	-	10	50		-		- 1		-	-	-	
2N652	A	G	P	200	100	45	30		<u> </u>	-	80		10	100	-	-	-			1.			M
2N652A	Α	G	Р	200	100	45	30		L	1	80	_	10	100		_		_				\vdash	
2N653	Α	G	P	200	100	30	25				20		10	30									

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N460	2SB415		2SB537	2SB454	2SB281				
2N461	2SB415		2SB537	2SB454	2SB281				
2N462									
2N464	2SB56 A		2SB77A		2SB172				
2N465	2SB56 A		2SB77A		2SB172				
2N466	2SB56 A		2SB77A		2SB172				
2N467	2 S B 5 6 A		2SB77A		2SB172				
011407									
2N497	2SC547	-		2SC976		2S C 866	<u> </u>	2SC614	-
2N497 A	2SC547		20.0585	2SC976		2SC866		2SC614	-
2N498 2N505	2SC514		2S C 685					2SC614	
2N506	2SB54		2SB75A		2SB177				-
2N508	2SB415	2SB226	2SB156A	1	2SB324			 	-
2N508A	2SB415	2SB226	20210071	3	2SB324 2SB324				-
2N524	2SB42I	2SB226		 	2SB324 2SB324			 	+
2N525	2SB42I	2SB226	-		2SB324			1	+ -
2N526	2SB421	2SB226			2SB324			 	+
2N527	2SB42I	2SB226			2SB324				+
2N534	2SB55	2.2222	2SB75A		2SB177				+
2N535	2SB54		2SB75		2SB173			2SB186	+
2N535A	2SB54		2SB75		2SB173			2SB186	
2N535B	2SB54		2SB75		2SB173			2SB186	+
2N536	2SB54		2SB75		200170			2SB186	+
2N563	2SB56A		2SB77 A	_	2SB172			2SB187	+
2N564	2SB56A		2SB77 A		2SB172			2SB187	+
2N565	2SB56A		2SB77 A		2SB172		1	2SB187	+
2N566	2S B 56 A		2S B 77 A		2SB172			2SB187	
2N567	2SB56A		2SB77A		2SB172			2SB187	1 100
2N568	2SB56A		2S B 77 A		2SB172			2SB187	
2N570	2SB56A		2SB77A	_	2SB172	-		2SB187	-
2N571	2020071		2001111		200112			200107	
2N572			 					-	201.0
2N586		 							1000
2N591	2SB54		2 SB75 A	2SB135	2SB172	1177			+
2N592	20204		LOBION	202,00	200172	Action to the second			
2N593									+
2N597								_	-
2N599								_	
2N609	2SB364	2 S B 223	2S B 370	2SB457 A	2SB324				
2N610	2SB364	2 S B 223	2S B 370	2SB457 A	2SB324			· · ·	+
2N611	2SB364	2SB223	2SB370	2SB457 A	2SB324			-	
2N612	2SB364	2SB223	2 S B 370	2SB457 A	2SB324			-	\vdash
2N613	2SB364	2SB223	2S B 370	2SB457A	2SB324				5,000
2N631	2SB56		2SB77		2SB172			-	1,000
2N632	2SB56A		2SB77		2SB172				1.0
2N633	2SB 56A		2SB77 A		2SB172			· · · ·	
2N650	2SB415		2SB156A		2SB402				
2N650A	2SB415		2SB156A		2SB402	-		 	
2N651	2SB415		2SB156A		2SB402			 	
2N652	2SB415		2SB156A		2SB 402				_
2N652A	2SB415		2S B 156 A		2 SB 402				To large
2N653	2SB415	-	2S B I 56 A		2SB324		•		- 1

		7	_	M/	MUMIX	RA	TINGS	-					ELE	CTRICAL	CHARA	CTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	Voso	Ic	. lo	80	Γ	hfe		hfe	hie	hre	hoe	1T	· NF	Cob	Coxitbb"	OUTLINE	NOTE
100		MA	ᅙ	25°C (m₩)	(7)	(V)	(V)	(mA)	(µA)	V08(V)	min.	max.	Ic(mA)		(Q)	(×10)	(µ0)	*fae **fab (MHz)	(dB)	(pF)	(ps)	TO-	
2N654	Α	G	Р	200	100	30	25				40		10	50				(
2N655	Α	G	Р	200	100	30	25				70		10	100									
2N656	Α	S	N	4 W	200	60	60				30	90	200										
2N656A	Α	S	N	5W	200	60	60				30	90	200										
2N657	Α	S	N	4W	200	100	100				30	90	200										
2N680	Α_	G	Р	150	75	20	20				18	165	50					15					
2N696 A	S	S	N	800	300	60	35				20	60	150	15				40					
2N697	S	S	N	600	175	60	40				40	120	150	15				40					
2N697A	S	S	N	800	300	60	35				40	120	150	25		_		50			-		
2N698 2N699	S	S	N	800 600	20.0	120	80				20 40	60	150	15 35				40 50					
2N702	SH	S	N	300	175	120 25	25				20	120 60	10	35				70					
2N703	SH	S	N	300	175	25	25				40	100	10			-	L	70					.
2N705	SH	G	P	300	100	15	15	-			25	100	10					1,0			-		
2N706	SH	s	N	300	175	25	20		<u> </u>		20		10		-			200			-		
2N706A	SH	s	N	300	175	25	20	_			20	60	10			_		200					
2N706B	SH	s	N	300	175	25	15				20	60	10					200					
2N708	SH	s	N	360	200	40	20				30	120	10			-		300					
2N718	АН	s	N	400	175	60	40				40	120	150					50					
2N718A	ΑH	S	N	500	200	75	50				40	120	150	30				60					
2N728	SH	S	N	4 W	175	15	15				20	200	10					100					
2N729	SH	S	N	4 W	175	30	30				20	200	10					100					
2N753	SH	S	N	300	175		20			7	40	120	10					200					
2N759	Α	S	N	500	200	45	45							36				50	٠.		_		
2N760	Α	S	N	500	200	45	45							76				50					
2 N869	АН	S	N	360	200	45	18				20	120	10	_		<u> </u>		100					
		<u> </u>	-				_																
	-	-																					
		-	-													-							
2N911	Α	s	N	500	200	100	80				35		10	36				50			-	-	
2N912	A	s	N	500	200	100	80				15		10	18				40					
2N914	SH	s	N	360	200	40	20				30	120	10	10				300					
2N915	AH	s	N	360	200	70	50			24	50	200	10	50				250					
2N916	AH	S	N	360	200	45	25			- 1	50	200	10	50				300					
2N929	Α	s	N	600	175	45	45			10	40	120	0.01	150				_					
2N930	A	S	N	600	175	45	45				100	300-	0.01	150				- 1					
2N956	АН	S	N	500	200	75	50				100	300	150	50				70					
2N995	АН	S	Р	360	200	20	15				35	140	20					100					
2N1008	Α	G	Р	300	85	20	15																
2N1008A	Α	G	Р	300	85	40	35							40							<u> </u>		
2N1008B	A	G	Р	300	85	60	55				إي			20		Щ.							
2N1015	SP	S	N	150	150	30	30				10		2			Щ					ļ.,		
2N1015A	SP	S	N	150	150	60	60				10	20	2								,		
2N1047 2N1049	AP	S	N	40 W	200 200	80	\vdash				12	36	500			\vdash						\vdash	
2N1049 2N1050	AP	S	N	40 W	200	_				\dashv	30	90	500			\vdash		500			_	\vdash	
2N1056	A.	G	P	240	100	120 70	50	-			30	90 43	500 20			-		500				\vdash	
2N1057	A	G	Р	240	100	45	45	-+			34	90	20	10				500			-	 	
2N1058		G	N	50	75	20	20			\dashv	J44	50		,,,				-					
2N1059	А	G	N	180	75	40	15	-		\dashv								10			-		
2N1067	SP	S	N	5 W	1.75	60	30				15	75	200					0.75	-			\vdash	
2N1068	SP	S	N	10.W	175	60	30	•		\dashv	Ĩ5	75	750					0.75					
2N1069	SΡ	S	N	50W	175	60	45	$\neg \neg$			20	50	1.5A					0.5	•				
2N1070	SP	S	N	50W	175	60	45			\dashv	20	_	1.5A					0.5					
			_								-												

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N654	2SB415			2 SB453	2SB324			2SB186	
2N655	2SB415			2SB453	2SB324			2SB186	
2N656	2SC481	2SC57	2SC 685	2SC1018	2SC697A	2SC1082		2SC614	
2N656A	2SC481	2SC57	2SC 685	2SC1018	2SC697A	2SC1082		2SC614	
2N657	2SC981	2SC698	2SC685	2SC1018	2SC697A		2SC795	2SC614	
2N680				_			-		
2N696A	2SC503	2SC959	2SC479		2SC696	2SC215	2SC756		-
2N697	2SC503	2SC959	2SC479		2SC696	2SC215	2SC756	- 7	
2N697A	2SC503	2SC959	2SC708		200000		200.00	16	
2N698	2SC510	2SC49	2SC708A		2SC696A	2SC1069	2SC1124		
2N699	2SC510	2SC49	2SC708A		2SC696A	2SC1069	2SC1124	_	
2N702	2SC984	2SC67	2SC907A		2S C 563		2301124	2SC423	
2N702 2N703	2SC984	2SC67	2SC907A		2SC563	2SC203 2SC203		2SC423	
2N705	230364	23007	23C3U/A		230303	230203			
	000004	*****	0.00007.4	200000	000000	000000	0001100	2SC423	-
2N706	2SC984	2SC68	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	1
2N706A	2SC 984	2SC68	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	-
2N706B	2SC984	2SC67	2SC907A	2SC302	2SC563	2SC203	2SC1128	2SC423	
2N708	2SC979	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	
2N718	2SC979	2SC69 ^	2SC907A	2SC302				160	ļ
2N718A	2SC979	2SC69	2SC907A	2SC302					ļ
2N728	2 S C 555			2SC447					ļ
2N729	2SC555			2SC447					ļ
2N753	2SC979	2SC68	2SC907A	2SC302	2SC563	2 S C 2 0 3	2SC1128	2SC423	
2N759	2SC979	2SC67	2SC907A	2SC302	2SC563	2SC203		2SC423	
2N760	2SC979	2SC67	2SC907A	2SC302	2 S C 5 6 3	2SC203		2SC423	
2N869	2SC979	2 S C 67	2 S C 9 0 7 A	2SC302	2 S C 5 6 3	2SC203		2SC423	
2N911	2SC510		2SC708		-				- 0
2N912	2SC510		2SC708						9
2N912 2N914	2SC510 2SC979	2SC67		2SC302	2SC538A	2SC203		2SC423	4
2N912 2N914 2N915	2SC510 2SC979 2SC979		2SC708	2SC302	2SC538A 2SC538A	2SC203 2SC202		2SC423	1
2N912 2N914	2SC510 2SC979 2SC979 2SC979	2SC67 2SC67	2SC708 2SC907A					2SC423 2SC423	
2N912 2N914 2N915	2SC510 2SC979 2SC979		2SC708 2SC907A 2SC907A	2SC302	2SC538A	2SC202			
2N912 2N914 2N915 2N916	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998		2SC708 2SC907A 2SC907A	2SC302	2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929	2SC510 2SC979 2SC979 2SC979 2SC998		2SC708 2SC907A 2SC907A	2SC302	2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998		2SC708 2SC907A 2SC907A	2SC302	2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998		2SC708 2SC907A 2SC907A	2SC302 2SC302 2SB454	2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC998 2SC495	2SC67	2SC708 2SC907A 2SC907A 2SC907A	2SC302 2SC302	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC998 2SC495	2SC67 2SB223	2SC708 2SC907A 2SC907A 2SC907A 2SC907A	2SC302 2SC302 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008B	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008B 2N1015	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008B 2N1015 2N1015A	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008B 2N1015 2N1015A 2N1047	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008A 2N1008B 2N1008B 2N1015 2N1015 2N1047 2N1049	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N1008 2N1008B 2N1008B 2N1015 2N1047 2N1047 2N1049 2N1050	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N950 2N1008 2N1008A 2N1008B 2N1015 2N1015A 2N1047 2N1047 2N1050 2N1050	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N929 2N926 2N926 2N1008 2N1008 2N1008 2N1015 2N1015 2N1047 2N1049 2N1056 2N1056 2N1056	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N908 2N1008 2N1008 2N1015 2N1047 2N1047 2N1049 2N1050 2N1050 2N1050 2N1050 2N1050 2N1050 2N1057 2N1057	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SC67 2SB223 2SB224	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008A 2N1008A 2N10045 2N1015 2N1015 2N1015 2N1050 2N1050 2N1050 2N1050 2N1050 2N1050 2N1050 2N1050 2N1050 2N1055	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SB223 2SB223 2SB224 2SB218	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N1008 2N1008A 2N1008B 2N1015A 2N1015 2N1015 2N1050 2N1050 2N1056 2N1056 2N1056 2N1058 2N1058	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415 2SB415	2SC67 2SB223 2SB224 2SB218	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454 2SB454 2SB454 2SB454	2SC538A 2SC538A	2SC202			
2N912 2N914 2N915 2N916 2N929 2N930 2N956 2N995 2N1008 2N1008A 2N1008A 2N1008A 2N10047 2N1015 2N1015 2N1015 2N1050 2N1050 2N1050 2N1050 2N1057 2N1058 2N1058 2N1059	2SC510 2SC979 2SC979 2SC979 2SC998 2SC998 2SC495 2SB415 2SB415	2SB223 2SB223 2SB224 2SB218	2SC708 2SC907A 2SC907A 2SC907A 2SC907A 2SB370A 2SB370A	2SC302 2SC302 2SC302 2SB454 2SB454 2SB454	2SC538A 2SC538A	2SC202			

		یہ	-	MA	XIMUM	RA	TINGS						ELE	CTRICAL	CHAR	ACTERI	STICS						
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	V 080	Iç	to	280		hfe		hfe	hie	hre	hoe	fr *fae **faD	NF	Соъ	Coxitab	OUTLINE	NOTE
		MA	P0.	(mW)	(7)	(٧)	(¥)	(mA)	(μ A)	A ^{OS} (A)	m in .	max.	Ic(mA)		(Q)	(×10 [†])	(µō)	**faD (MHz)	(dB)	(pF)	(ps)	TO-	
2N1084																							
2N1085								<u></u>			L.												
2N1090	S	G	Ν	120	85	25					30		20					5					
2N1091	S	G	N	120	85	25					40		20					10			<u> </u>		
2N1092	SP	S	N	2 W	175	60	30				15	75	200					0.75					
2N1097	A	G	P P	200	100	18	18	-		-	34	90	20					1			-		
2N1098 2N1102	A	G	N	180	75	18	18 25				25 25	90 50	20 35			-		10					
2N1102	AH	G	P	30	,,,	16	23				23	30	33					40					
2N1108	AH	G	P	30		16				 	-							35			-		
2N1109	АН	G	Р	30		16										_		35					
2N1110	AH	G	Р	30		16											,	35					
2N 128	Α	G	Р	150	85	25	18							70									
2N1129	Α	G	Р	150	85	25	25		-		100	200	100										
2N1130	A	G	Р	150	85	30					50	165	100										
2N1144	Α	G	Р	175	85	16	16				34	90	20					1					
2N1145	Α	G	Р	175	85	16	16				25	90	20					1					
2N1149	Α	S	N	150	175	45					9	20	25	0.9		Ļ		14			-		
2N1150	Α	S	N	150	175	45			ļ		18	40	25	0.948				5					
2N1151	A	S	N	150	175	45					18	90	25	0.948		_		8			-		
2N1153 - 2N1155	A	S	N	150	175	45					76 9	333	25 50	0.987				7					
2N1155 2N1175	` A	S G	N P	750 200	150 85	80 35	25	200		-	70	140	20	0.9		-		1.5	I KHZ	26		5	GE
2N1175 2N1175A	-A	G	P	200	85	35	25	200			70	140	20			_		1.5	1 KHZ 6	26	<u> </u>	5	GE
2N1177	AH	G	P	80	71	30	7	200			70	140	20					1.3	. 6			,	
2N1186	Α.	G	P	200	100	60	45						10	30		1		0.75		-	 		
2N1187	Α	G	P	200	100	60	45	- 11			45	_	10	50				1		,			
2N1188	Α	G	Р	200	100	60	45				80		10	100				1.2					
2N1191	Α	G	Р	200	100	40	25				20	80	10	30									
2N1192	Α	G	Ρ	200	100	40	25				40	135	10	50									
2N1193	A	G	Р	200	100	40	25				70	300	10	100									
2N1206	AH	S	N	3 W	200	60	60				20	80		25			•	10					
2N1265	AH	G	Р	50	85	12	10							25				600					
2N1266	AH	G	Р	80	85	10								10							ļ	_	
2N1273	A	G	Р	250	100	15	15			\vdash	27	165	50	20									
2N1274 2N1287	A	G	P P	250 300	100 85	25 25	25 25				27	165	50	20 40									
2N1287	A	G	P	300	85	25	25		-		_			60									
2N1335	AHP	S	N	800	175	120	45			\vdash	10	150	30	- 50				70					
2N1336	AHP	S	N	800	175	120	45			\vdash	10	150	30					70					
2N1337	AHP	_	N	800	175	120	45		-	Н	10	150	30			\vdash		70					
2N1338	AHP	S	N	800	175	80	25				10	150	30					70					
2N1,339	AHP	S	N	800	175	120	50				10	150	30					70					
2N1340	AHP	s	N	800	175	120	50				10	150	30					70					
2N1341	AHP	S	N	800	175	120	50				10	150	30					70					
2N1342	AHP	S	N	800	175	150	65				10	150	30					70					
2N1352	Α	G	Р	150	85	30	20				.40	100											
2N1382	Α	G	Р	250	100	25	25				45	165	50	40									
2N1383	A	G	Р	250	100	25	25				27	165	50	20									
2N1408	S	G	Р	150	100	50	50			$\vdash \vdash$	10	45	150	10				200				\vdash	
2N1409	SH	S	N	800	200	30	25	<u> </u>		\vdash	15	45	150	\vdash		H		200		-	-	\vdash	-
2N1410A 2N1413	SH	S	N P	800 200	200 85	30 35	30	200			30 25	90 42	150 20	20		-	L	130 800	I KHZ	26		-	GE
2N1413	9	G	P	200	85	35	25 25	200		$\vdash\vdash$	34	65	20	30		\vdash		1 800	6 I KHZ	26		5 5.	GE
2N1414 2N1415	S	G	P	200	85	35	25	200		\vdash	53	90	20	44		-		1.3	6 KHZ 6	26		5	GE
2141412	, ,	u	,	200	Ų.J	- 55	LJ	200			55	30	20	44				1.3	6	2.0		J	<u> </u>

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1084		1							
2N1085									
2N1090									
2N1091									
2N1092	2SC1237			2SC778					
2N1097									
2N1098									
2N1102									
2N1107									
2N1108									
2N1109									
2N1110							,		
2N1128	2SB56		2SB77		2SB172			2SB187	
2N1129									-
2N1130									
2N1144 2N1145									
2N1145 2N1149	2 S C 376	2SC943			2SC828A	2 S C 965	2SC403B	2 S C 9 3 3	-
2N1149 2N1150	2SC376	2SC943			2SC828A 2SC828A	2SC965 2SC965	2SC403B	2SC933	
2N1150 2N1151	2SC376 2SC376	2SC943		 	2SC828A	2SC965	2SC403B 2SC403B	2SC933	-
2N1153	2SC376	2SC943			2SC828A	2 S C 9 6 5	2SC403B	2SC933	
2N1155									
2N1175	2SB415		2SB77A	2SB458A	2SB324			-	
2N1175A	2SB415		2SB 77 A	2SB458A	2SB324				
2N1177	2SB415		2SB 77 A	2SB458A	2SB324				, -
2N1486	2SB421			2SB458B	2SB281				
2N1187	2SB421			2SB458B	2SB28I				
2N1188	2SB421		,	2 S B 458 B	2SB281				
2N/191	2 S B 42 I		2SB77A	2SB458B	2SB281				
2N1192	2SB42I		2SB77A	2SB458B	2SB281				1.
2N1193	2SB421		2SB77A	2SB458B	2SB281				
2N1206									
2N1265	2SB54		2SB75	2SB135	2SB173			2SB186	
2N1266	2SB54		2SB75	2SB135	2SB173			2SB 186	
2N1273									
2N1274	<u> </u>								
2N1287									
2N1287A 2N1335	200510	2SC49	2SC 153	2SC309	25.00004	2S C 1069	2SC1124		_
2N1335 2N1336	2SC510 2SC510	2SC49 2SC49	2SC 153	2SC309 2SC309	2SC696A 2SC696A	2S C 1069	2SC1124 2SC1124		-
2N1336 2N1337	2SC510 2SC510	2SC49 2SC49	2S C 153	2SC309 2SC309	2S C 696A	2SC1069 2SC1069	2SC1124 2SC1124		1
2N1338	2SC503	2SC 97A	2SC 708A	2SC307	2SC696	2SC202	2301124		
2N1339	2SC510	2SC 37A	2SC153	2SC309	2SC696A	2SC1069	2SC1124		+
2N1340	2S C 510	2SC 49	2SC153	2S C309	2000000	2SC1069	2SC1124	, -	_
2N1341	2SC 510	2SC 49	2SC153	2SC309		2SC1069	2SC1124		
2N1342	2SC 95		2SC153	2SC310			2SC1124		
2N1352									
2N1382		×.	_						10
2N1383		,			-				
2N1408	2SB 55		2SB77A		2SB177				
2N1409	2SC998	2SC319			2SC 822				
2N1410A	2SC998	.2SC319			2SC 822				
2N1413	2SB415			2SB457	2SB324				
2N1414	2'SB415			2 SB 457	2SB324				
2N1415	2SB415			2SB457	2SB324				2 - 1

		V.	7		XIMUM	RA*	TINGS				_		ELE	CTRICAL	CHARA	CTERI	STICS	1 4-				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (m)	Vos	V 080	lc	lo		ie.	hFE		hfe	hie (Ω)	hre (×10)	hoe	fī *faē **fab	NF.	Cob	Coxitab	TO.	NOTE
100000		_		(mW)	(2)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(2)	(X10)	(µō)	(MHz)	(dB)	(pF)	(ps)		
2N1420A	AH	S	N	800	200	60	40				100	300	150			ļ	ļ	60					
2N1445	AP	S	N	4 W	200	120	120				20	80	200					75					
2N1446	A	G	Р	200	85	45	25				16	45	20	16				0.8					
2N1447	Α	G	Р	200	85	45	25				35	65	20	30,				1.5					
2N1448	Α	G	Р	200	85	45	25		1		50	90	20	45				2					
2N1449	A	G	Р	200	85	45	25				70	125	20	.60				2.5					
2N1451	A	G	Р	200	85	45	20				20	65	20	-							<u> </u>		
2N1452	A	G	Р	200	85	45	20				30	90	20										
2N1470	AP	S	N	55 W	200	60	60				15		۱A										
2N1471	S	G	Р	200	85	12	15							100				3					
2N1479	SP	S	N	5 W	200	60	60				20	60	200										
2N1480	SP	S	N	5W	200	100	100				20	60	200				- 1						9
2N1481	SP	s	N	5 W	200	60	60				35	100	100									i l	
2N1482	SP	s	N	5W	200	100	100		-		35	100	100										
2N1483	SP	S	N	25 W	200	60	60				25	60	60									\Box	
2N1484	SP	s	N	25W	200	100	100				20	60	750										
2N1485	SP	s	N	25W	200	60	60				35	100	750										
2N1486	SP	s	N	25W	200	100	100				35	100	750										
2N1505	AHP	-	N	800	175	50	20				7	100				t		70					
2N1506	AHP	s	N	800	175	60	20				10	100			_			140					
2N1506A	AHP	-	N	800	200	80	50				10	100	_			_		140					_
2N1524	AH	G	Р	80	85	24	- 30			-	ا ٽ	100	0.17	17				140					
2N1525	AH	G	P	80	85	24					<u> </u>		-	17		├		-			 		
2N1613	-	_	N		200	75	50				40	120	150	30		├		60					
	S	S	_	800			50				40	120	150	30				60			\vdash		
2N1613A	S	\$	N	I W	200	75	_				40	120	150	30	-	\vdash		60	,	-			
2N1613B	S	S	-		200	120	55			<u> </u>	_	_	500	30		-		90			1		
2N1691	AP	S	N	40W	200	120	120			ļ	20	60	-			-					├	 	
2N1700	S	S	N	5 W	200	60	60				20	80	100					0.4			-	 	
2N1701	S	S	N	25 W	200	60	60				20	80	300					0.35			├	├─	
2N1705	A	G	P	200	100	18	12	-						70		-	-					 	
2N1706	A	G	P	200	100	25	18	_			60	120	20	50		ļ					-	-	
2N1707	Α	G	P	200	100	30	25				30	150	10	40									
2N1708	SH	S	N	I W	175	25	12		L	ļ.,	20		10			-	<u> </u>	200				├	
2N1709	AHP		N	15W	175	75	30				7.5	75	0.35A			<u> </u>	_	175			-		
2N1710	AHP	S	N	15W	175	60	30				4	100				<u> </u>		140					
2N1711	S	S	N	800	200	75	50				100	300	150	50				70			ı.	ļ	
2N1711A	AH	S	N	I W	200	75	50			<u> </u>	100	300	150	50		\vdash		70				-	
2N1711B	AH	S	N	1 W	200	120	55				100	300	150	50		L.		70				<u> </u>	
2N1714A		S	N	20₩	175	90	60				20	60	200					16					
2N1715	AP	S	N	20 W	175	150	100			`	20	60	200					16			<u> </u>		
2N1716	ΑP	S	N	20 W	175	90	60				40	120	200					16		L			
2N1717	ΑP	S	N	20 W	175	150	100				40	120	200					16					
2N1718	AP	S	N	20 W	175	90	60				20	60	200					16					
2N1720	ΑP	s	N	20 W	175	90	60				40	120	200					16					
2N1768	S	S	N	40 W	200	60	40				35	100	750					600					
2N1769	s	S	N	40 W	200	100	55		l.		35	100	750					600					
2N1837A	SH	S	N	800	175	80	30		,		40	120	0.15A					140					
2N1886	AHP	s	N	20W	175	60	60				20	80	0.5A					2			Γ.	1	
2N1889	AH	s	N	800	200	100	80				40	120	150	30				50				†	
2N1890	AH	S	N	800	200	100	80				100	300	150	50				60					
2N1893	AH	S	N	800	200	120	100			H	40	120	150	30				50					
2N1924	A	G	P	225	100	60	40	500	<u> </u>		34	65	20	30	700	2	15	1		18		5	GE
2N1925	A	G	P	225	100	60	40	500		-	53	90	20	44	1200		20	1.3		18	\vdash	5	GE
	A A	G	P	225	100		40	_		\vdash	72	121	20	60	1500	4	25	1.5	 -	18		5	GE
2N1926	∥ A	u	1	443	100	60	60	500		_	30	90	200	12	1300	4	23	1.3		10	-	J	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1420A									
2N1445	2SC510	2SC49	2SC708A		2SC696A		2SC1124		
2N1446	2 S B 2 2 6			2SB 454	2SA720				
2N1447	2SB226			2SB454	2SA720				
2N1448	2SB226			2SB454	2SA720				
2N1449	2SB226			2 SB 454	2SA720				
2N1451	2SB226			2SB454	2SA720				
. 2N1452	2SB226			2 SB454	2SA720				
2N1470									· ·
2N1471									_
2N1479		2SC698		2SC1017		2SC866		_	
2N1480		2SC698							
2N1481		2SC698	`	2SC1017		2 S C 8 6 6			
2N1482		2SC698		i i					
2N1483			11/2	1000					
2N1484				F-15. 15.					_
2N1485									
2N1486									İ
2N1505	2SCI382	2SC139		2SC775	2SCI384	2SC797	† — —		
2N1506:	2SC1382	2SC139		2SC775	2SCI384	2SC797			
2N1506A	2SCI382	2SC149		2SC775		2SC1069			
2N1524									+
2N1525						100000			
2N1613	2SC498	2SC97A	2SC479		2SC696	2SC202	2SC1056	The second	
2N1613A				2SC1018		200202	200,000		- 5
2N1613B		2SC960		2SC1018			70 Tel 2	5.3	7
2N1691									1
2N1700		2SC1098	2SC819	2SC 1155	2SC1226A		_		
2N1701									
2N1705	2SB189		2SB89		2SB174			2SB185	
2N1706	2SB189		2SB89		2SB174			2SB185	
2N1707	2SB189		2 SB 89		2SB173			2SB185	
2N1708								2 3 5 1 6 3	
2N1709	2SC489			2SC737		-			Carl C
2N1710	2SC551	2 S C 5 9 8		2SC737					150
2N1711			2SC479	2SC307	-	2SC212			1
2N1711A				2SC1018		200212			100
2N1711B	_			2007070					
2N1714A	2 S C 5 0 8	2SC92			2SC901	· · ·			11.11
2N1715	2SC508	2SC 92	1		2SC901				
2N1716	2SC508	2SC92			2SC901				en regula
2N1717	2SC508		 		2SC901				A
2N1718	2SC508		 		2SC901				
2N1720	2SC508		<u> </u>		2SC 901				
2N1768	2SC493				2SC901			-	
2N1769	2SC492		-			7.7.3		-	8 11=
2N1837A	2SC503	2SC959		2SC307		2SC202	2,000,000	-	
2N1886		2SC92		200007		20000		-	100
2N1889	2SC510	2SC92	2SC708A	2SC308	2SC696A	2SC1069	2SC1124		2.7.5
2N1890	2SC510	2\$C92	2SC708A	2SC308	2SC696A	2SC1069	2SC1124	13.6	
2N1893	2SC510	2SC92	2SC708A	2SC309	2SC696A	2301003	2SC1124		
2N1924	2SB421		2007007	2SB454	200000		2001124	2.2.2.2.1.3.ml	1
2N1925	2SB421			2SB454 2SB454			1	THE PARTY OF THE P	
2N1926	2SB421			2SB454 2SB454		-			
-11.320				200404		11-3	CONTRACTOR STATE	15 3 4 5 4 F L	

1		_	-	МА	XIMUM	RA	TINGS						ELI	CTRICAL	_ CHAR/	ACTERI	STICS					1	
TYPE	USE	MATERIA	POLALITY	Pc	Tj	Vas	Voso	1c	lo	180		hfe		hfe	hie	hre	hoe	fT *fge	NF	Cob	Coxitab	OUTLINE	NOTE
		×	POL	25°C (mW)	(3)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(ℚ)	(×10 [†])	(µð)	*fae **fau (MHz)	(dB)	(pF)	(ps)	10-	
2N1973	Α	٠S	N	800	200	100	80				75		10	76			1,4	60					
2N1974	Α	S	N	800	200	100	80				35		10	36				50					
2N1975	Α	S	N	800	200	100	80				15		10	18				40					
2N1997	S	G	Р	250	100	45	15				40	200	100					3					
2N1998	S	G	Р	250	100	35	15				70	225	100	20				5.6					
2N2007	SC	S	N	800	200	175	110				30	90	10					40					
2N2017	Α	S	N	1 W	200	60	60				50	200	200					ļ					
2N2033	SP	S	N	5 W	200	80	60				20	60	500										
2N2034	SP	S	N	14 W	200	80	60				20	60	IA			_		1					*
2N2035	SP SP	S	N	17W	200	80	60				20	60	1.5A			-		1					
2N2036 2N2094	35	G	N P	17.5W 100	200 85	80 25	60 25				20 40	60	2 A	40				30					
2N2102	SH	S	N	5 W	200	120	120				35		10	35				30					
2N2102A	SH	S	N	I W	200	120	120				40	120	150	30									
2N2106	A	S	N	1 W	150	60	60			\vdash	12	36	200	- 50							 		
2N2107	A	s	N	i W	150	60	60		-	\vdash	30	90	200					<u> </u>					
2N2108	A	S	N	i W	150	60	60				75	200	200										
2N2171	Α	G	Р	200	100	50	25		-	П	110	250	20	120									
2N2 i 72	S	G	Р	200	85	20	15				30	150	10	0.97				5					
2N2173	SH	G	Р	240	100	25	15				30		200										
2N2192	SH	S	N	800	200	60	40				100	300	150							1			
2N2192A	SH	S	N	800	200	60	40				100	300	150										
2N2192B	SH	S	N	800	200	60	40`				100	300	150										
2N2193	SH	S	N	800	200	80	50				40	120	150										
2N2193A	SH	S	N	800	200	80	50				40	120	150								<u></u>	-	
2N2193B 2N2194	SH	S	N	800	200	80	50			-	40	120	150								_		
2N2194A	SH	S	N	800 800	200	60 60	40				20	60	150	-									
2N2194B	SH	S	N	800	200	60	40				20	60	150										
2N2196	AP	S	N	2 W	175	80	60			\vdash	30	90	200	30							-		
2N2197	AP	S	N	2 W	175	80	60				75	200	200	30									
2N2218	SH	S	N	800	175	60	30				40	120	150					250					
2N2218A	SH	S	N	800	175	75	40				40	_	0.15A	30				250					
2N2219	SH	S	N	800	175	60	30				100	300	150					250					
2N2219A	SH	S	N	800	175	75	40				100	200	0.15A	50				300					
2N2221	SH	S	N	500	175	60	30				40	120	150					250					
2N2221A	SH	S	N	500	175	75	40				40	120	0.15A	30				250					
2N2222	SH	S	N	500	175	60	30				100	300	150					250					
2N2222A	SH	S	N	500	175	75	40				100		0.15 A	50				300					
2N2224	SH	S	N	800	175	65	40				35	115	10					250					
2N2239	A	S	N	1 W	150	60	50				30	200	200										
2N2270	A	S	N	5 W	200	60	45				30	100	I A	50		\vdash							
2N2297 2N2330	AH SC-	S	N	800	150	80 30	35			-	40 50	120	150					60					•
2N2330 2N2339	AP	S	N	40 W	200	60	20 40				6		10 1.5A					0.7					
2N2339 2N2374	A	G	P	250	100	35	35			\dashv	100	300	1.5A	100		-		0.7	-			\rightarrow	
2N2375	A	G	P	250	100	35	35			\dashv	35	110	100	35					-				
2N2376	A	G	P	250	100	35	35	$\neg \neg$		\dashv	35	110	100	35					-+	-			
2N2410	SH	S	N	800	200	60	30				30	120	10					200					
2N2430	Α	G	N	280	75	32	32			\neg	_	210	0.IA					10					
2N2443	АН	S	N	800	200	120	100				50	150	50	45				50					
2N2447	Α	G	Р	75	85	45	24				\neg			25									
2N2448	Α	G	Р	75	85	45	24							25									
2N2449	Α	G	Р	75	85	35	20							50									

					-			-	1
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N1973	2SC510	2SC49	2SC153	2SC309	2SC696	2SC1069	2SC1124		18.54
2N1974	2SC510	2SC49	2SC 153	2SC309	2 S C 696	2SC1069	2SC1124	N. N.	
2N1975	2SC510	2 S C 4 9	2SC153	2SC309	2SC696	2SC1069	2SC1124	1	RIG
2N1997	ļ					2SB304 A			The same
2N1998	2 SB 201				2SB280				140 May 1
2N2007	2SC507					2SC627			
2N2017	2SC510	2SC49	2SC708A	2SC1018	2SC696	2SC1069	2SC1124		TO ANY TO
2N2033			2SC315		2SC574			2SC614	
2N2034			2SC118		2SC584			2SC616	
2N2035			2SC 18		2SC584			2SC616	
2N2036			2SC 18		2SC584			2SC616	
2N2094	2SB291	2SB 264						2SB303	
2N2102									-
2N2102A					2SC1012				182 101
2N2106	1			2SC1018					300
2N2107				2SC1018			i		
2N2108				2SC1018					
									100
2N2171	2SB421				2SB28I				
2N2172	2SB415		2SB156A	2SB495	2SB324				Yes
2N2173	2SB415		2 S B I 56 A	2SB495	2 SB324			_	
2N2192	2SC503	2SC138		2SC1018					
2N2192A	2SC503	2SC138		2SC1018					
2N2192B	2SC503	2SC 138		2SC1018					- 30
2N2193	2S C512			2SC1018					10/9
2N2193A	2SC512			2SC1018					11/60
2N2193B	2SC512			2SC1018					
2N2194	2 S C 5 0 3	2SCI38		2SC1018					- 3
2N2194A	2 S C 5 0 3	2SC138		2SC1018				1	(4)
2N2194B	2SC503	2SC 138		2SC1018		_	-	_	- 1
2N2196	2SC1237	2SC799		2SC778					
2N2197	2SC1237	2SC799		2SC778					13
2N2218	2SC503	2SC580		2SC775		2SC827			-
2N2218A	2SC503			2SC775		2SC827			
2N2219	2SC503	2SC580		2SC775		2SC827			
2N2219A	2SC503	2SC853		2 SC775		2SC827			
2N2221		2SC580							
2N2221 A		2SC853				_			-
2N2222		2SC580							
2N2222A		2SC853							
2N2224	2SC503	2SC580							7.0
2N2239		2SC959		2SC1018					
2N2270	2SC502	2SC698			2SC697	2SC541	2SC756-2	2SC614	- 5-81
2N2297	2SC503						222.00 2	200014	
2N2330	2SC503								1.00
2N2339	2SC520	_		-	2 S C 647	-			127
2N2374									
2N2375						_			
2N2376									
2N2410						_			
2N2430	2SC503	2SC580		2SC775					
2N2443	2SC510	2SC49	2SC708H	2SC309	2SC696A	2SC1069	2SCI124		
2N2447	2SB306				2SB289	2SB 304	2001124		
2N2448	2SB306				2SB289	2SB304		100 100 100 100 100	
2N2449	2SB40				2SB288	2SB304		- 12 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	

		ږ	_	M	AXIMU	M R	ATING	s					EI	LECTRICA	L CHAP	RACTER	ISTICS						
TYPE	USE	MATERIA	POLALITY	Pc 25°C (mW)	Tj (*C)	Vos (V)	VCEO (V)	Ic (mA)	Ια (μΑ)	Vos(V)	min	max.	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μα)	f	NF (dB)	Cob (pF)	Coxrbb	TO.	NOTE
2N2483	A	S	N	360	200	60	60	100			40	120	10	80				12					-
2N2484	A	S	N	360	200	60	60		1		100	500	10	150		t		15					11
2N2537	SH	S	N	800	200	60	30				50	150	150	- 1				250					
2N2538	SH	S	N	800	200	60	30	5			100	300	150					250					
2N2594	A	S	N	5W	200	80	90				50	150	100	15				40					
2N2632	AP	S	N	40W	175	90	60				40	120	IA	40				20					
2N2657	SP	S	N	1.25W	200	80	60			-	40	120	IA					20					
2N2699	SH	G	P	150	100	15	8				40	200	10	1800			3	300					
2N2711	Α	S	N	200	125	18	18	100	0.5	18	30	90	2	-30					10KHZ 2.8			98	GE
2N2712	Α	S	N	200	125	18	18	100	0.5	18	75	225	2	80					10KHZ 2.8			98	GE
2N2713	Α	S	N	200	125	18	18	200	0.1	18	30	90	2	30								98	GE
2N2714	A	S	N	200	125	18	18	200	0.1	18	75	225	2	80	-							98	GE
2N2723	AL	S	N	500	200	80	60			-	2K	IOK		1500		-		100			-		
2N2724	AL	S	N	500	200	80	60			-	7K	50K	10	5000				100			- 1		
2N2725 2N2726	AL	S	N	500 1W	200	45 200	45 200		-	-	2K 30	10K	0.1A 200	1500				100	-		-		-
2N2727	AHP	S	N	IW	200	200	200			-	75	150	200	75				15					
2N2787	SH	S	N	800	175	75	35		_		20	50	150	15		-		250	-	-	-		
2N2788	SH	S	N	800	175	75	35	2		-	40	120	150	30		-		250	-	-	-		
2N2789	SH	S	N	800	175	75	35	-	_	-	100	300	150	80		1-		250			-		
2N2800	SH	S	Р	800	200	50	35			1	30	90	150	- 00				120	- 1				
2N2801	SH	S	P	800	200	50	35			-	75	225	150	_			-	120		-			
2N2828	SP	S	N	40W	200	80	60				20	60	500					1		-			
2N2829	SP	S	N	40W	200	80	60				20	60	IA	7.5				T					
2N2846	S	S	N	800	200	60	30				30	120	150	17.5-9	7			250					
2N2848	S	S	N	800	200	60	20			117	40	140	150			317		250					-
2N2853-1	SH	S	N	850	200	60	40				40		IA -					30					
2N2854-1	SH	S	N	850	200	60	40				100	300	IA					30					
2N2855-1	SH	S	N	850	200	60	40				40	120	IA				1	30	1.2				
2N2856-I	SH	S	N	850	200	60	40				20	60	1A					30					
2N2863	АН	S	N	800	200	60	25				30	220	200					150					
2N2864	AH	S	N	800	200	60	25				20	200	200			ļ		150			ļ		
2N2868	SH	S	N P	800	200	60	40		7.	<u> </u>	40	120	150			-	-						
2N2875 2N2876	AHP AH	S	N	20W 17.5W	200	60 80	50				15	60	50					25					
2N2877	AHP	S	N	17.5W	200	80	60				20	60	2.5A IA	20		-		150 30			-		
2N2878	AHP	S	N	53W	200	80	60	•			40	120	IA	40		-		50		L			
2N2883	AHP	S	N	800	200	40	20				20	120	100	40		-	-	400					
2N2884	AHP	S	N	800	200	40	20				20		100					400					
2N2904	SH	S	P	3W	200	60	40				40		120			+-	-	200	-				
2N2905	SH	S	Р	3W	200	60	40				100	300	150					200					
2N2906	SH	S	Р	1.8W	200	60	40		2		40	120	150					200					
2N2907	SH	S	Ρ	1.8W	200	60	40				100	300	150					200					
2N2923	Α	S	N	200	125	25	25	100	0.1	25	115		2	90				160				98	- GE
2N2924	Α-	S	Ν	200	125	25	25	100	0.1	25	155		2	150		L		160				98	GE
2N2925	Α	S	N	200	125	25	25	100	0.1	25	215		2	235				160				98	GE
2N2926	Α	S	N	200	125	18	18	200	0.5	18				35				120		7		98	GE
2N2927	S	S	Р	800	200	25	25				30	130	50	25				100					
2N2939	AHP	S	N	800	300	75	60				60	240	150					150					
2N2941	AHP	S	N	800	200	150	100				60	240	150	- 33	-	· ·		150				72.1	
2N2947	AP	S	N	25W	175	60	60				2.5	55	400	1				100			_		
2N2948	AP	S	N	25W	175	40	40	-		_	2.5	100	400					100					
2N2949	AP	S	N	6W	175	60	60			_	5	100	40			Ш		100					
2N2950	AP	S	Ν	6W	175	60	60				5	100	40					100			ļ.,		
2N2951	AP	S	Ν	3W	175	60	60				20	150	10					200					

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2483									_
2N2484									
2N2537									
2N2538	- 0								
2N2594	- "			2SCI018					
2N2632									
2N2657		·							
2N2699	-	· ·							
2N2711	2SC1000		2SC458			2SC1372			
2N2712	2SC1000	,	2SC458			2SC1372			
2N2713	2SC396	2SC1216	2SC468			2SC724			
2N2714	2SC396	2SC1216	2SC 468			2SC724			
2N2723									
2N2724									
2N2725									
2N2726									4.5
2N2727				-				· .	
2N2787				ļ					
2N2788				-					
2N2789									
2N2800									
2N2801									
2N2828	-						- 100		
2N2829				ļ					
2N2846								1	
2N2848						-			
2N2853-I				2SC1014		134	air. La		
2N2854-1				2SC1014	Tr - A	1000	100	11.10. / 14	2000
2N2855-1				2SC1014			71200		
2N2856-1				2SC1014					
2N2863				4					
2N2864									
2N2868				2SC1018				-	
2N2875									
2N2876	2SC551	2SC598		250737					
2N2877									70.00
2N2878									
2N2883	2SC1165	2SC890		2SC908					
2N2884	2SC1165	2SC890		2SC908				-	
2N2904				+ `				-	
2N2905				 					-
2N2906						-			
2N2907	2001000			2SCI312					,
2N2923	2SC1000	-		2501312			-	-	
2N2924	2SC1000			2SCI3I2 2SCI3I2					
2N2925	2SC1000	2001216		2301312		2SC1231		2SC933FP	
2N2926 2N2927		2SC1216		 		2001231		200333FP	-
		-		+					7 2 4 5
2N2939		-		-				7	145
2N2941	ACCEL			2SC737			-		11000
2N2947	2SC551			250737			 		
2N2948	2SC551			230131					
2N2949	· · · · · · · · · · · · · · · · · · ·			-	3	- 17	1		200
2N2950									

		A.	7		XIMUI	M R	ATINGS				_	_	EL	CTRICA	L CHAR	AC LERI	STICS	fτ	_			OUTLINE	
TYPE	USE	MATERIAL	POLAUTY	Pc 25°C	Tj (°C)	Vos	VCEO	lc /-A	los			hfE		hfe	hie (Q)	hre (×10)	hoe (μζ)	*fae **fab	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
01/0050	AP	≆ S	_	(mW)	(°C)	(v)	(v)	(mA)	(µA)	Vos(V)	min 20	max:	Ic(mA)		(32)	(210)	(µĢ)	(MHz) 200	(00)	(pr)	(μο)		
2N2952		-	N	1.8W		_							_					350		_	-		
2N3013	SH	S	N	360	200	40	15				30	_	30				<u> </u>				-		
2N3014	SH	S	N	360	200	40	20				30		30					350			-		
2N3015	SH	S	N	800	200	60	30				30		150					250			-		
2N3016	AHP	S	N	3.33W	150	100	50				60	150	IA			_		200			_		
2N3017	AHP	S	N	3.33W	150	100	50				60	150	IA		,			200					
2N3021	SHP	S	Р	25W	175	30	30				20	60	IA			_		60					
2N3022	SHP	S	Р	25W	175	45	45				20	60	IA 、			_		60			-		
2N3023	SHP	S	Р	25W	175	60	60				20	60	IA					60					
2N3024	SHP	S	Р	25W	175	30	30				50	180	IA			ļ	-	60			_		
2N3025	SHP	S	Р	25W	175	45	45				50	180	IA	,				60					
2N3026	SHP	S	P	25W	175	60	60				50	180	1A					60			L.		
2N3053	SH	S	N	5W	200	60	40				50	250	150					100					
2N3054	AP	S	N	25W	200	90	60	4A			25	100	500	25		L		30				66	GE
2N3072	S	S	Р	800	200	60	60				30	130	50	25				130					
2N3107	S	S	Ν	800	200	100	60				100	300	150	60				70					
2N3108	S	S	N	800	200	100	60				40	120	150					60					
2N3109	S	S	Ν	800	200	80	40				100	300	150	60				70					
2N3110	S	S	Ν	800	200	80	40				40	120	150					60	ļ.,				
2N3114	AH	S	Ν	800	200	150	150				30	120	30	25				40					
2N3118	AH	S	N	1 W	200	85	60				50	275	25					250					
2N3120	S	S	Р	800	200	45	. 45				30	130	50	25				130					
2N3122	А	S	N	800	200	50	30				25	100	300					60					
2N3133	SH	S	P	600	200	50	35				40	120	150					200				_	
2N3134	SH	S	P	600	200	50	35				100	300	150					200					
2N3135	SH	S	Р	400	200	50	35				40	120	150					200				`	٠.
2N3136	SH	S	P	400	200	50	35				100	300	150					200					4
2N3138	AHP	S	N	20W	200	65	65		-	3	10		IA					100				,	
2N3140	AHP	S	N	20W	200	65	65				10		IA					100					
2N3142	AHP	S	N	25W	200	65	65				10		IA					100					
2N3144	AHP	S	N	25W	200	65	65				10		ΙA					100					
2N3199	AHP	S	Р	40W	200	40	40				20	60	1A	10				- 1					
2N3200	AHP	S	Р	40W	200	60	60				20	60	IA	10				1					
2N3205	AHP	S	P	40W	200	40	40				20	60	500	10				1					
2N3206	AHP	S	Р	40W	200	60	60				20	60	500	10 1				1					
2N3210	SH	S	N	360	200	40	15		_		30	120	10					300					
2N3226	AP	S	N	75W	200	35	35				20	50	2A	20				30					
2N3229	AHP	S	N	17.5W	200	105	60				5		2.5A					150					
2N3244	SH	S	Р	IW	200	40	40				50	150	500				-	İ 75					
2N3245	SH	S	Р	IW	200	50	50				30	90	500					150					
2N3252	SH	S	N	1W	200	60	30				30	90	500					200					
2N3253	SH	S	N	ıw	200	75	40	line.			25	75	375					175					
2N3295	AHP	S	N	800	175	60	60				20	60	10					200					
2N3296	AHP	S	N	700	175	60	60				5	50	40					100					
2N3297	AHP		N	25W	175	60	60				2.5	35	400					100					
2N3298	AHP		N	IW	175	25	15				80	240	10			T."		200					
2N3299	SH		N	800	200	60	30			2.	40	120	150					250			1		
2N3300	SH	S	N	800	200	60	30			1	100	300	150					250					
2N3301	SH	_	N	360	200	60	30				40	120	_			_		250			1 .		
2N3302	SH		N	360	200	60	30				100		150					250			1	T T	
2N3309	AHP		N	3.5W	175	50	50				5	100	_					300			1		
2N3326	SH	S	N	800	175	60	45				40	120				T		250					
2N3375	AHP	-	N	11.6W		65	40				10	100	250			T		400		Ι.			
2N3390	A	S	N	200	125	25	25	100	0.1	18	400	800	2	400						2		98	GE
2N3391	A	S	N	200	125	25	25	100	0.1	25	-	500	_	250		_		120	1.9		\top	98	GE

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N2952	<u> </u>							- 2000	
2N3013									
2N3014									
2N3015									
2N3016									
2N3017									
2N3021									
2N3022						_			
2N3023									
2N3024					_				
2N3025									
2N3026									
2N3053									
2N3054	2SD118	2SD283							
2N3072				2SC1018			_		,
2N3107									
2N3108								Ti .	
2N3109				2SC1018					
2N3110				2SC1018	_				
2N3114				_					JAN.
2N3118									15.8
2N3120								2	2.77
2N3122	2SC504	2SC959	2SC479		2SC696	2SC200			
2N3133									
2N3134	_								
2N3135						300	. *		-
2N3136		14.			,				
2N3138				8.7	a,21 / 5				
2N3140	_		1	75%					
2N3142	_					-			1
2N3144									
2N3199						1.3	7.7.8.0	10.00	
2N3200									
2N3205						9			
2N3206									
2N3210						. */			
2N3226									
2N3229									
2N3244	_								_
2N3245									
2N3252									-
2N3253					T			_	
2N3295	2SC998			2SC741		2SC543	_		
2N3296									_
2N3297	2SC551			2SC737		2SC543			
2N3298	2SC501	2SC67		2SC306		2SC88			
2N3299	2SC501	2SC67		2SC306		25088		_	
2N3300	2SC501	2SC67		2SC306		.2SC88	_		
2N3301	2SC501	2SC67		2SC300		2SC88			
2N3302	2SC501	2SC67		2SC300		20000			_
2N3309				2SC1011		2SC1465			
2N3326						2001400	-		
2N3375	2SC549	2SC598		2SO691		2SC543	- 0	2SO614	
2N3390	2SC732	2SC923	2SC1344	200001		2SC1372	2SC403C	2SC933FP	15/24/0
2N3391	2SC732	2SC900	2SC458LG		2SC644	2SC644	2004030	20033357	and the same

		A	1	1	MIXAN	JM I	RATING	s			_		_ E	LECTRIC	AL CHAP	RACTER	ISTICS						
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Tj	Vos	VCEO		l a	_		hr	_	hfe	hie	hre	hoe	fτ ∗fαe	NF	Cob	Coxrbb	OUTLINE TO.	NOT
20102014	-			(1000)	(°C)		(V)	(mA)	(μA)	Vos(V)	min.	max	_		(0)	(×10)	(µg)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
2N3391A	A	S	-		125	+	25	100	0.1	25	250		_	250				120	1.9			98	GE
2N3392	Α	S	N	_	125	_	25	_	0.1	25	150		_	150				120				98	GE
2N3393	А	S	+		125		25	100	∙ 0.∣	25	90	180	2	90				120				98	GE
2N3394	A	S	N		125		25	100	0.1	25	55	110	2	55				120				98	GE
2N3395	A	S	N		125	25	25	100	0.1	25	150	500	2	150						10		98	GE
2N3396	Α	S	N		125	25	25	100	0.1	25	90	500	2	90						10		98	GE
2N3397	A	S	N	200	125	25	25	100	0.1	25	55	500	2	55						10		98	GE
2N3398	Α	S	N	200	125	25	25	100	0.1	2,5	55	800	2	55						10		98	GE
2N3402	Α	S	N	560	150	25	25	500	0.1	25	75	225	2	75	5100	2.7	14			1		98	GE
2N3403	Α	S	N	560	150	25	25	500	0.1	25	180	540	2	`180	9000	4.5	21					98	GE
2N3404	Α	S	N	560	150	50	50	500	0.1	50	75	225	2	75	4200	2	10					98	GE
2N3405	Α	S	N	560	150	50	50	500	0.1	50	180	540	2	100	8300	4	20					98	GE
2N3414	Α	S	N	500	160	25	25	500	0.1	25	75	225	2	.75	5100	2.7	14					98	GE
2N3415	Α	S	Ń	500	160	25	25	500	0.1	25	180	540	2	180	9000	4.5	21					98	GE
2N3416	A	S	N	500	160	50	50	500	0.1	50	75	225	2	75	4200	2.7	10			-		98	GE
2N3417	Α	S	Ñ	500	160	50	50	500	0.1	50	180	_	2	100	8300	4	20					98	GE
2N3418	SP	S	N	800	175	85	60			-	20	60	IA	1.00	-			40			-		
2N3420	SP	S	N	800	175	85	60				40	120	IA	_				40			ļ		
2N3440	АН	S	N	IW	200	300	250				40	160	20	25				15					
2N3441	ΑP	S	N	25W	200	160	140	3A		-	25	100	500	23				0.8					0.5
2N3442	AP	S	N	117W	200	160	140	5A	_		20	70	3A	-				0.0				66	GE
2N3444	SH	S	N	IW	200	80	50	-		\vdash	20		500					∤50	- 5			3	GE
2N3462	A	S	N	300	200	50	35				100	300	10	150									
2N3463	A	S	N	300	200	60	45			-	120	360	-					10					
2N3464	AHP	S	N	5W	200	60	40	- 1			35		10	150				45					
2N3467	SH	S	P	IW	200	40	40	-					200	30				50			_		
2N3468	SH	S	P	IW	200	50	50	1		- 5	40		500					175					•
2N3469	\vdash	S	N	1.25W	200	35	25			\rightarrow	25	75	500					150			- 4		
2N3478	\rightarrow	S	N	200	200		_	\rightarrow			100	350	500	100				20					
2N3478 2N3485	_	S	P	2W	200	30	15				25	150	2	25				750					
2N3486	\rightarrow	S	P	2W	200	60		-			40		150					200			\Box		
2N3500	-	_	_			60	40	_		_	100	300	150					200					
2N3506	\rightarrow	S	N	1W	200	150	150				40	120	150	50				150					
2N3506 2N3507	-	S	N	IW	200	60	40	\rightarrow			40	200	1.5A					60					
	-	\rightarrow	N	IW	200	80	50	_			_		1.5A					60					
2N3508	-	-	N	400	200	40	20			_	40	120	10					500					
2N3510	\rightarrow	_	N	360	200	40	10	_			25	150	150	20				350			_ [
2N3511	\rightarrow	_	N	360	200	40	15	_			30	120	150	20				450					
2N3512		\rightarrow	N	800	200	60	35			_	10		500					250					
2N3526			N	800	200	_	120				30	120	30	25				40					
2N3544		_	Ν	300	175	25	25				25		10					600					
2N3547	_	_	Ρ	360	200	60	60				100	500	iΑ	120				45					
2N3548			Р	400	200	60	45				100	300	10	150				60					
			N	7W	200	65	40					$\overline{}$	250			\Box		400					
2N3554			Ν	800	200	60	30	[25	100	750					150	7	\neg	\neg		
2N3563	$\overline{}$	_	N	260	125	30	12				20	200	8	20				600	- 1				
2N3564	_	_	Ν	260	125	30	15				20	500	12	20			$\neg \neg$	400		\neg		\neg	
2N3565	$\overline{}$	\rightarrow	N	260	125	30	25			.13	∤50	600	ı	120				40		_	T		
2N3566	Α	s	N	300	125	40	30				150	600	10					40		+	\dashv	\dashv	
2N3567	Α	s	N	300	125	80	40		$\neg \uparrow$		_	_	150				\neg	60		_	+	+	
2N3568	Α :	s	N	300	125	80	60		-	\neg	\rightarrow	-	150		\rightarrow	+	+	60	_	\rightarrow	\dashv	+	
N3569	Α :	s	N	300	125	80	40	$^{+}$	\neg	-		\rightarrow	150	_	\neg	-	\dashv	60	\dashv	+	\dashv	_	
2N3579		\rightarrow	Р		200	60	60	\dashv	\dashv		_	120	1	30	\dashv	+	-	80	-+	\dashv	\dashv	-	
2N3580		_	P		200	60	60	+	-+	+	\rightarrow	240		60	\dashv	+	\dashv	80	+	\dashv	\dashv	-	
	_	-	P		200	50	40	+	-	+	\rightarrow	\rightarrow	100	50	\dashv	+	\dashv	30			\rightarrow	-	
		-	P		200	50	40	-	\rightarrow		_	_	100	100				30					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3391A	2SC732	2SC 945	2SC458LG	2SC300			2SC631A	140	No.
2N3392	2SC400	2SC1216	2SC1085	2SC1312	2SC478	2SC724		2SC933FP	MALE P
2N3393	2SC400	2SC1216	2SC1085	2SC1312	2SC478 ·	2SC724		2SC933FP	-12500
2N3394	2SC400	2SC1216	2SCI085	2SC1312	2SC478	2SC724	L	2SC933FP	-
2N3395	2SC1000	2SC1216		2SC712F		2SC724	2SC631	100	
2N3396	2SC1000	2SC1216		2SC712F		2SC724	2SC631	4 50	- States
2N3397	2SC1000	2SC 1216		2SC712F		2SC724	2SC 631		AT LESS
2N3398	2SC1000	2SC 1216		2SC712F		2SC724	2SC 631		ATT OF THE
2N3402					2SC1346				-
2N3403		-			2SC1346				- VALUE
2N3404					2SC1347				002579
2N3405					2SC1347				550,00
2N3 <u>4</u> 14					2SC1346	_			4.438
2N3415					2SCI346				- 198
2N3416					2SC1347				1103
2N3417					2SC1347				: 30
2N3418								- 1 - 3	1 1 1 1 1
2N3420	_								1
2N3440									11 A 20
2N3441		2SD284					2SD56		-
2N3442		2SD286							ratte
2N3444									10
2N3462	2SC734	2SC1216	2SC317	2SC620	2SC456	2SC725	2SC318		
2N3463	2SC734	2SC1216	2SC317	2SC620	2SC456	2SC725	2SCI129		1.09
2N3464			-						
2N3467							1		
2N3468		15.5							1 1 1 1 1
2N3469		·				142		-	
2N3478							1		
2N3485									-
2N3486			E 8						THE .
2N3500									
2N3506									100
2N3507									100
2N3508									
2N3510			17.						
2N3511			1		(* T)				
2N3512									
2N3526									
2N3544									
2N3547									1.7
2N3548									0.0
2N3553	2SC549	2SC598				2SC 542		2SC614	19 3
2N3554									- SE
2N3563	2SC387A	2SC922		2SC763	2SC1047	2SC721	2SC1129	2377 = -	7500
2N3564		2SC922		2SC763	2SC1047	2SC721	2SCI 129		1-0-1
2N3565		2SC838	2SC461	2SC710			200	2SC933FP	FIGURE 1
2N3566				2SC620	2SC456	2SC725			-15:0
2N3567			2SC284	2SC714					
2N3568			2SC284	2SC1211					3.70
2N3569			2SC284	2SC714				1000	FER IN
2N3579									
2N3580								17.66	
2N3581			1						
2N3582								2.14.4.00	

7		4	>	M	AXIMU	M R	ATINGS	3			_		EL	ECTRICA	L CHAR	ACTERI	STICS		*				
TYPE	USE	ERIA	F	Pc	Tj	Vos	VCEO	Ic	los	10	1	hre		hfe	hie	hre	hoe	fτ ∗fαe	NF	Cob	Coxrbb	OUTLINE	NOTE
2.49	0.00	MATERIAL	POLALITY	25°C (m₩)	(°C)	(V)	(V)	(mA)		Vas(V)	min.	max.	ic(mA)	iii e	(Ω)	(×10)	(μ ₀)	**fab (MHz)	(dB)	(pF)	(ps)	TO.	
2N3583	AHP	S	N	35W	200	250	175				40	200	500	25				10					
2N3589	АНР	S	N	2W	175	200	200				30	90	200	30				15		_			
2N3590	AHP	S	N	2W	175	200	200				75	150	200	75				15					
2N3591	AHP	S	N	IW	175	200	200				30	90	200	30		-		15					
2N3592	AHP	S	N	1W	175	200	200				75	150	200	75				15					
2N3593	AHP	S	N	IW	175	200	200				30	90	200	30				15					
2N3594	AHP	S	N	IW	175	200	200				75	150	200	75				15					
2N3600	АН	S	N	200	200	30	15				20	150	3	40				850					
2N3605	S	S	N	200	150	18	14				30		10					300					
2N3606	S	S	Ν	200	150	18	14				30		10					300					
2N3607	S	S	Ν	200	150	18	14				30		10					300					
2N3619	AHP	S	Ν	7.5W	175	75	40				40		ÍΑ					200					
2N3620	AHP	S	Ν	7.5W	175	75	40				40		IA					200					
2N3621	AHP	S	Ν	30W	175	75	40				40		IA					200					
2N3622	AHP	S	Ν	30W	175	75	40				40		IA					200					
2N3623	AHP	S	N	7.5W	175	75	40				40		IA					200					
2N3624	AHP	S	N	7.5W	175	75	40				40		IA					200					
2N3625	AHP	S	Ν	30W	175	75	40				40		IA					200					
2N3626	AHP	S	Ν	30W	175	75	40				40		IA					200					
2N3627	AHP	S	Ν	7.5W	175	100	50				40		1A					200					
2N3628	AHP	S	Ν	7.5W	175	100	50				40		1A					200					
2N3629	AHP	S	Ν	30W	175	100	50				40		IA			L.		200		-			
2N3630	AHP	S	N	30W	175	100	50.				40		IA					200					
2N3632	AHP	S	N	23W	200	65	40				10		250					250					
2N3633	SH	S	N	300	200	15	6				50	150	10										
2N3638	SH	S	P	300	125	25	25				30		50	25		ļ		100					<u>r. </u>
2N3638A	SH	S	Р	300	125	25	25				100		50	100				150					
2N3641	AHP	S	N	350	125	60	30			<u> </u>	40	120	150					250					
2N3642	AHP	S	N	350	125	60	45				40	_	150					250				•	
2N3643	AHP	S	N	350	125	60	30				100	300	150					250					
2N3644 2N3659	SH	S	P	300 4W	125 200	45	45 170				115	300	50 10	20		711		200					
2N3659 2N3660	AHP	S	P	5W		220 40					20 25	100	500	20		-		50			-		
2N3661	AHP	S	P	5W	200	60	30 50				25	100	500			-		25 25					
2N3662	AH	S	N	200	125	18	12	25	0.5	15	20	100	8			-		700	60vHZ	1.5		98	GE
2N3663	AH	S	N	200	125	30	12	25	0.5	15	20		8			-		700	60MHZ	3	-	98	GE
2N3675	SP	S	N	8.8W	200	90	55	23	0.5	15	12	60	IA					700	4	3		30	- 62
2N3678	SH	S	N	800	200	75	55				40	120	150					250					
2N3681	AH	S	N	200	200	10	-7					220	2	20				230		-			
2N3682	AH	S	N	360	200	40	15				40	120	10	45				600	-	-			
2N3683	AH	S	N	200	200	30	12				20	150	8	30		\vdash	-	1					
2N3688	AH	S	N	200	125	40	40				30		4					400					
2N3689	AH	S	N	200	125	40	40			-	30		4					400					
2N3690	AH	S	N	200	125	40	40				30		4					400					
2N3691	Α	s	N	200	125	35	20		· -		40	160	10	40				200					
2N3692	Α	S	N	200	125	35	20					400	10	100				200	_		_	\vdash	
2N3693	АН	S	N	200	125	45	45		7		40	160	10					200					
2N3694	АН	S	N	200	125	45	45		_		100	400	10					200				-	
2N3702	Α	S	P	300	150	40	25				60	300	50					100					
2N3703	Α	S	P	300	150	50	30				30	150	50					100					
												4											

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	CONV	CANVO	NOTE
	TOSTIDA	NEC	miachi	MILIODIONI	MINISUSHIIA	1031120	SONY	SANYO	NOTE
2N3583							·		
2N3589									14
2N3590									
2N3591	<u> </u>								A. Co
2N3592				-	A			-1	3 10
2N3593									
2N3594								140	
2N3600									3
2N3605									
2N3606 2N3607				<u> </u>				1	
2N3619			_	000001					
2N3620				2SC691				2SC614	
2N3621	2001077	0001007		2SC691			 	2SC614	100
2N3622	2SC1077 2SC1077	2501037		2SC690	_				
2N3623	2501077	2SC1037		2SC690					
2N3624				250691	_			2SC614	
2N3625	2SC1077	2SC1037		2SC691 2SC690			_	2SC614	
2N3626	2SC1077	2SC1037 2SC1037							Miles .
2N3627	2501077	2501037		2SC690					
2N3628		_							
2N3629				-					
2N3630								/ /	20
2N3632	2SC551		_	200727		000540			
2N3633	230331		_	2SC737		2SC543			
2N3638		_			_				
2N3638A				_					11/55
2N3641				2SC620	2 SC456		_		
2N3642		_		2SC620	2 SC456				114
2N3643			_	2SC620	2SC456		_		
2N3644				200020	230430		_		201
2N3659			-						38
2N3660		2SA635		2SA624					
2N3661		2SA 635		2SA624					
2N3662	2SC786	2SC922	2SC683	20/1021		_	2SCI 129	-	31 H
2N3663	2SC785	2SC1187	2SC717		-		2501129	5781	IVA IVA
2N3675				_			. 2301123		
2N3678		_							197
2N3681								147	100
2N3682								100	100
2N3683			_						76-1
2N3688		2SC1187	2SC717	1		-	2SC1129	T 1 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	
2N3689		2SC1187	2SC717				2SC1129	1901140	
2N3690		2SCI187	2SC717				2SC1129		100
2N3691	2S€732		2SC461	2SC710			2SC632	2SC933FP	
2N3692	2SC732	_	2SC461	2SC710			2SC632	2SC933FP	
2N3693	2SC732		2SC461	2SC710			2SC632	2SC933FP	
2N3694	2SC732		2SC461	2SC710	=.01		2SC632	2SC933FP	
2N3702					20)1		E WHE TH		1311
2N3703					-4				
						1			
					-				-

		¥	~		AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	RACTERI	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLAUTY	Pc 25*C (mW)	Tj (°C)	Vcs (V)	V _{CEO}	I _C (mA)	Ια (μ Α)	80 Vcs(V)	min.	mex.	ic (mA)	hfe	hie (Q)	hre h (×10)	hoe (ළුහු)	f r *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N3704	Α	S	N	360	150	50	30	800			100	300	50					100				18	
2N3705	A	S	N	360	150	50	30	1	_		50	150						100				10	
2N3706	A	s	N	360	150	40	20	-	-	-	30	600	-	-	-			100					
2N3707	A	s	N	250	150	30	30	100		-	100	400	_	100	-	\vdash		100			-	-	
2N3708	Ā	S	N	250	150	30	30	100	-	-	45		660	45							-		
2N3709	Ā	S	N	250	150	30	30	100			_		000										
2N3710	A	S	N	250	_	-	_		-	-	45	165	-	45		\vdash	_					-	
2N3711	A	S	N	250	150	30	30	-		₩	90	330		90	_	1			-		<u> </u>		
2N3711	AH	S	P	800	150	30	30	_		-	180	660	-	180	_	+		-	-		<u> </u>		
2N3712		_	P	6W	200	150	150			-	30	150		25		-		40	-		_		
	SHP	S	-		200	40	40				25	180						60		-	_		
2N3720	SHP	S	P	6W	200	60	60				25	180						60					
2N3721	Α	S	P	200	125	18	18	100	0.5	18	60	660	_	60				120					
2N3722	S	S	P	800	200	80	60				40	150		2				300					
2N3724	SH	S	Р	800	200	50	30				60	150	100	1				300					
2N3724A	SH	S	P	IW		50	30			1	60	150											
2N3725A	SH	S	P	IW		80	50				60	150	100	3									
2N3734	SH	S	Р	IW	200	50	30	IA			30	120	IA					300					
2N3735	SH	S	Р	IW	200	75	50	IA			20	80	IA.					250					
2N3738	AP	S	Р	20W	175	250	225	IA			40	200	100	35				15					
2N3739	AP	S	Р	20W	175	325	300	IA			40	200	100	35				15			,		
2N3740	AP	S	Р	25W	200	60	60	4A		700	30	100	250	25				4					
2N3740A	AP	S	P	25W	200	60	60				30	100	250	25				4					
2N3742	АН	S	N	IW	200	300	300				20	200	30 °	20				30			-		
2N3744	AHP	S	N	30W	200	60	40				20	60	IA	20				30		,			
2N3745	AHP	S	N	30W	200	80	60			t	20	60	IA	20				30	_		_	_	
2N3747	AHP	S	N	30W	200	60	40	-			40	120	_	40		-		40			-		
2N3748	AHP	S	N	30W	200	80	60		-		40	120	IA	40		\vdash		40			-		
2N3762	SH	S	Р	1W	200	40	40				30	120	IA					180					
2N3763	SH	S	Р	IW	200	60	60	,-			20	80	IA			\vdash	-	150		-		-	
2N3766	AP	S	N	20W	175	80	60				40	160		40	-	1		15		-	-		
2N3771	AP	s	N	150W	200	50	40	30A	2mA	50	15	60	15A	40	-		_	13				3	GE
2N3772	AP	S	N	150W	200	100	60	20A	5mA	100	15	60	10A	40		-		12000				3	GE
2N3772	AP	_	N	150W	200	160	140	16A	2mA	140	15	60	8A	40		1						3	GE
2N3778	A	_	P	360	200	60	60	TOA	LIIIA	140		450	500	150				30	-			3	GE
	AHP	-	N	25W	175	60	60			-	5		400	3		-	_	30	_	_			
2N3825	AH	S	N	250	150	30	15				20	30	2	3				200	ļ	_			
2N3830	SH	S	N	IW	200	80	50		_		30		_	-		\vdash		200				-	
2N3831		S	N	IW	200	70	40			-	35		150 150			-		200	_				
2N3843	AH	S	N	200	125	30	30	100	۸.				-			-		200	2 MH 7				
	\rightarrow	_	_						0.5	18	20	40						60	2 MHZ 5. 5	3	150	92	GE
2N3843A	_	S	N	200	125	30	30	100	0.5	18	20	-	2					60	2 MHZ 5.5 2 MHZ	3	150	92	GE
2N3844		_	N	200	125	30	30	100	0.5	18	35	70				\vdash		90	5.5	3	150	92	GE
2N3844A	\rightarrow			200	125	30	30	100	0.5	18	35	70						90	2 MHZ 5, 5	3	150	92	GE
2N3845	-	-		200	125	30	40	100	0.5	18	60	120	_	- 1				120	2 MHZ 5.5	3	150	92	GE
2N3845A	-	-	N	200	125	30	30	100	0.5	18	-	120						120	2 MHZ 5.5	3	150	92	GE
			N	30W	200	60	40				-	150	_					20					
	-		N	30W	200	60	40				30	90						20					
2N3854			$\overline{}$	200	150	18	18	100	0.5	18	35		2					100		16	25	92	GE
2N3854A			N	200	150	30	30	100	0.5	18	35	70	_	-5576				100		16	25	92	GE
2N3855			Ν	200	150	18	18	100	0.5	18	60	120	2					130		16	35	92	GE
2N3855A	АН	S	N	200	150	30	30	100	0.5	18	60	120	2					130		16	35	92	GE
2N3856	АН	S	N	200	150	18	18	100	0.5	18	100	200	2					140		16	40	92	GE
2N3856A	АН	S	N	200	150	30	30	100	0.5	18	100	200	2	$\neg \uparrow$				140		16	40	92	GE
LINDODOM I					_	_	_	_			_	_	$\overline{}$	_	_	-	_		_	-			
2N3858	АН	s	Ň	200	125	30	30	100 1	0.05	40 I	60	120	2				- 1	90	- 1	- 1	65	92	GF
	\rightarrow	\rightarrow	N N	200	125	30 60	30 60	100	0. 05	40 60	60 45	120	2 I					90 90			65 65	92	GE GE

ТҮРЕ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3704						S			
2N3705									
2N3706									
2N3707	2SC732	2SC900	2SC458LG	2SC871	2SC644		2SC631A		
2N3708	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3709	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3710	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3711	2SC1000	2SC900	2SC458LG		2SC644		2SC631A		
2N3712									
2N3719									
2N3720									
2N3721	2SC1000		2SC458	2SC712		2SC724			
2N3722									
2N3724									
2N3724A									
2N3725A									,
2N3734	2SC998	2SC319	_8	2SC730		2SC1479			
2N3735									
2N3738	_	Ţ							
2N3739									
2N3740		- F							
2N3740A									
2N3742									
2N3744									
2N3745									
2N3747									
2N3748 -	-								
2N3762	-								
2N3763									
2N3766									
2N3771	2SD114					2SD250			
2N3772	2SD113	2SD132				2SD250			
2N3773			2SD341				2SD340		
2N3798		_	202011	-					
2N3818									
2N3825	2SC979	2SC67	2SC907A	2SC301			2SC1128		
2N3830	2003/3	20007	2000077	20001					
2N3831									
2N3843	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3843A	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3844	2SC733	1	2SC641	2SC712	-		2SC631A	2SC933FP	
2N3844A	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3845	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3845A	2SC733		2SC641	2SC712 2SC712			2SC631A	2SC933FP	120
2N3845A 2N3852	230133		230041	230112			230031A	200333i F	
2N3852 2N3853				-					
-	200722		200641	2SC712			2SC631A	2SC933FP	
2N3854	2SC733		2SC641	250712			2SC631A	2SC933FP 2SC933FP	
2N3854A	2SC733		2SC641		-			2SC933FP 2SC933FP	
2N3855	2SC733		2SC641	2SC712			2SC631A		United
2N3855A	2SC733		2SC641	2SC712			2SC631A	2SC933FP	
2N3856	2SC733		2SC641	2SC712		•	2SC631A	2SC933FP	OFFI
2N3856A	2SC733		2SC641	2SC712			2SC631A	2SC933FP	FUE
2N3858	2SC733		2SC641	2SC712	-00		2SC631A	2SC933FP	
2N3858A	2SC506	2SC1278	3		2SC1033		100	2SC715	
2N3859			2SC461	2SC713			2SC631A	2SC933FP	

		1	-	М	AXIMU	IM F	RATING	s					Ε	ECTRICA	AL CHAI	RACTER	ISTICS						
TYPE	USE	MATERIAL	POLAUTY	Pc 25°C (mW)	Tj (°C)	V _{CB} (V)	VCEO (V)	Ic (mA)	Ιοι (μΑ)	90 V ₀₈ (V)	min.	max.	Ic (mA)	hfe	hie (Ω)	hre (×10)	hoe (සුහි)	fr *fae **fab (MH)	NF (dB)	Cob (pF)	Coxrbb' (ps)	TO.	NOT
2N3859A	АН	S	N	200	100	60	60	100	0.05	60	75		1		 	\vdash		90			65	92	GE
2N3860	АН	S	N	200	125	30	30	100	0. 05	40	150	300	2					90			65	92	GE
2N3866	AHP	S	N	5W	200	55	30			-	10	-	_					250			0.5	J.	u.c
2N3867	SH	S	P	IW	200	40	40				40	200	_	_				60			_		
2N3868	SH	S	P	IW	200	60	60				30	-	1.5A			+		60					
2N3869	AHP	S	N	2.5W	175	40	20				20	150	_			_		- 00					
2N3877	Α	S	N.	200	150	70	70	50	0, 1	70	20	250	_				_	160				98	GE
2N3877A	A	S	N	200	150	85	85	50	0. 1	70	20	250	_					160			_	98	GE
2N3878	AHP	S	N	35W	200	120	50			1.0	40	200	_	40		-		40				-30	
2N3880	АН	S	N	200	200	30	15		_		30	200	_	50				1200			_		
2N3900	Α	S	N	200	125	18	18	100	0.1	18	250	500	_	170		-		160	1.9			98	GE
2N3900A	Α	S	N	200	125	18	18	100	0.1	18	250	500		170				160	1.9	_	-	98	GE
2N3901	A	S	N	200	125	18	18	100	0.01	15	350			350		\vdash		200	1.3			98	GE
2N3903	SH	S	N	3 0	135	60	40		0.01		50	150	_	50				250			_		
2N3904	SH	S	N	310	135	60	40				100	300	_	100	-	-		300					
2N3905	SH	S	Р	310	135	40	40				50	150		50				200					
2N3906	SH	S	P	310	135	40	40				100	300	10	100		-		250					
2N3910	SC	S	P	500	200	60	50			\vdash	40	160	1	100				4					
2N3911	SC	S	P	500	200	60	40			\dashv		240	<u>'</u>			+	-	8		-		+	
2N3912	SC	S	P	500	200	60	30				90	240	-	_				10					
2N3913	SC.	S	Р	400	200	60	50			-	40	160	1					4					
2N3914	SC	S	P	400	200	60	40	-		_		240	ı					8					
2N3915	SC	S	P	400	200	60	30				90	240	-					_					
2N3916	AP	S	N	5W	150	150	150			-		200	150	30				10					
2N3917	AP	S	N	20W	150	80	40				30	120	IA	15				50 50					
2N3918	AP	S	N	20W	150	80	40	-			100	300	IA	30				50					,
2N3919	SP	S	N	15W	150	120	60				40	120	2A	30				80					
2N3923	AH	S	N	8W	200	150	150	\dashv		-	_	120	_	20		-		40					
2N3924	AHP	S	N	7W	200	36	18			-+	30	120		20		\vdash		250					
2N3925	AHP	S	N	10W	200	36	18			\dashv	-							250					
2N3926	AHP	S	N	11.6W	200	36	18	\rightarrow						-				250			-		
2N3927	AHP	S		23. 2W	200	36	18		-	\rightarrow	-	_						200					
2N3932	AH	S	N	200	200	30	20			\rightarrow	40	150	2	50				750					
2N3933	AH	S	N	200	200	40	30	-	-	-	-	200		60				750				-	
2N3945	S	S	N	5W	200	70	50			-+	_	250		00				60					
2N3946	SH	S	N	360	200	60	40	-	_	-	50	150		50				250					
2N3947	SH	S	N	360	200	60	40		-	-				_									
2N3948	AHP	S	N	IW	200	36	20	\dashv	40	-	100	300	50	100				300			\dashv		
2N3953	АН		N	200	200	15	12	-+	-	\dashv	_	360	2	40		\vdash		700					
2N3959	SH	_	N	400	200	20	12	\dashv		-	-	-	10	13			-	1300					
2N3960	SH	S	N	400	200	20	12	\rightarrow		\dashv	_	200	$\overline{}$	16				1300				-	
	AHP	$\overline{}$	N	10W	200	65	40			\dashv	40	200	10	10		\vdash		1600			\rightarrow		
2N3962	A	S	P	360	200	60	60	-		\dashv	100	300	10	100				400	-				
2N3964	A	_	P	360	200	45	45	\rightarrow		\dashv	_	_	$\overline{}$						\rightarrow				
2N3965	_	S	P	360		-	\rightarrow				_	_	10	250			-	50					
2N3965 2N3973	S	_	\rightarrow	360	200	60	60	-		\dashv	_	\rightarrow	10	250				50					
2N3973 2N3974		\rightarrow	N		150	60	30	-		\rightarrow	_	_	10					200					
2N3974 2N3975	_	_	N	360	150	60	30	-			_	_	IŌ			-		200					
2N3975 2N3976	_	-	N	360	150	60	30	-				_	10	-			\rightarrow	200					
	_		N	360	150	60	30	\dashv					10					200				85	
2N3983 2N3984	_	-	_	200	150	30	12				30	_	4					500					
_	-	_	N	200	150	30	12	\rightarrow	-	_	20	_	4	_				400					
2N3985	_	$\overline{}$	_	200	150	30	12			_	20	_	4					300					
2N4012		-	\rightarrow		200	65	40	\rightarrow		_	4	-	IA					400					
2N4013				360	200	60	40	_			1		100					300					
2N4014	SH	S	Ν	360	200	80	50					150	100					300		T			

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FJITSU	SONY	SANYO	NOTE
2N3859A	2SC506		2SC 473						
2N3860	2SC732		2SC461	2SC 620			2SC631A	2SC933FP	
2N3866					75				
2N3867									
2N3868									
2N3869						_			
2N3877	2SC506		2SC 473						
2N3877A	2SC506								
2N3878									
2N3880									
2N3900	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A		
2N3900A	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A		
2N3901	2SC732	2SC 815	2SC458LG	2SC 1312			2SC631A		
2N3903		7.0	2SC1214	2SC1210		2SC1247A			
2N3904			2SC1214	2SC1210		2SC1247A			
2N3905				2SA696		2SA555			
2N3906				2SA696		2SA555			
2N3910		2SA636							
2N3911		2SA636							
2N3912		2SA636							
2N3913		2SA636			17 - T - W	7 77			
2N3914		2SA636							
2N3915	,	2SA636							
2N3916									
2N3917		_							
2N3918									
2N3919									
2N3923				_			- 10		
2N3924					2SC572		_		
2N3925					2SC572				
2N3926	2SC1120	2SC637		2SC703	2SC597	2SC843			
2N3927	2SC1120	2SC320		200,703	200337	2SC842			
2N3932	2301120	230320	-			250642	-		
2N3933									100
2N3945									-
2N3946									- 4
2N3947						_			-
2N3948	2SC1165	2SC890	-	2SC908	2SC731	2SC1479			-
2N3953	2301103	230830		250308	230731	2301473			111
2N3959								-	
2N3960								_	1 7 7 7
2N3961		2SC598		2SC691		2SC542			
2N3962		230398		250091		250542			
2N3964			110						Aldon
2N3964 2N3965			-						-
2N3965 2N3973	2SC734		200 217	300030	2SC456	20725		200022	
2N3973 2N3974	2SC734 2SC734		2SC 317	2SC620		2SC725		2SC933	
			250 317	2SC620	2SC456	2SC72 5		2SC933	100
2N3975	2SC734		2SC 317	2SC620	2SC456	2SC725		2SC933	200
2N3976	2SC734		2SC 317	2SC620	2SC456	2SC725		2SC933	177
2N3983							-/	120 120 1	
2N3984									
2N3985	0005:0	000500		20052		200515	A) -255-14	200011	1.34
2N4012	2SC549	2SC598		2SC691		2SC542	20 1 Sel 16	2SC614	4 192
2N4013	200		1			4 490	2 1	- T. P.	MILA.

	1	١.	١.	Т м.	AXIMU	M R	ATINGS		Г				EI	ECTRICA	AL CHAR	ACTER	ISTICS						- 1
TYPE	USE	RIAL	E	Pc	Tj	Vce	VCEO	lc lc	lei	an .	Г	hre		hfe	hie	hre	hoe	fτ ∗fαe	NE	Cob	Caurab	OUTLINE	NOTE
1100	U SE	MATERIAL	POLALITY	25°C (mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.		Ic (mA)	nie	nie (Ω)	(×10)		*fae **fab (MHz)	(dB)	(pF)	Coxrbb (ps)	TO.	MOTE
2N4026	A	S	Р	500	200	60	60		1,20.4	1,00(17)	40	120		-				100		· ·	<u> </u>		
2N4028	A	S	Р	500	200	60	60			 	100	300		_		+		150				-	
2N4030	A	S	Р	800	200	60	60				40	120	_					100					
2N4032	A	S	Р	800	200	60	60				100	300	100			+-		150					
2N4034	SH	S	Р	360	200	40	40				70	200	10	50				400		_		-	
2N4035	SH	S	Р	360.	200	40	40				150	300	10	150				450					
2N4036	S	S	Р	5W	200	90	65				40	140	150					60					
2N4037	S	S	Р	IW	200	60	40				50	250	150					60					
2N4040	AHP	S	N	17. 5W	200	60	40				10	80	100					400					
2N4041	AHP	S	N	10W	200	60	40				10	80	75					400					
2N4043	AM	S	N	300	200	45	45				80	800	10					150					
2N4046	SH	S	N	800	200	50	30					150	100					250					
2N4047	SH	S	N	800	200	80	50					150	100					250					
2N4054	AP	S	N	6. 25W	150	300	300	-			30	90	50					15					
2N4055	AΡ	S	N	6. 25W	150	250	250				30	_	50					15				$oxed{\Box}$	
2N4056	AP	S	N	6. 25W	150	200	200				30	90						15					
2N4057	AP	S	Ņ	6. 25W	150	150	150				30	90	50					15					
2N4058	Α	S	P	250	150	30	30				100	400	1	100						<u> </u>			
2N4059	Α	S	P	250	150	30	30			L.,	45	660	1	45		<u> </u>							
2N4060	Α	S	Р	250	150	30	30				45	165	1	45									
2N4061	Α	S	Р	250	150	30	30				90	330	1	90									
2N4062	A	S	Р	250	150	30	30					660		180									
2N4064	AP		N	10W	200	300	250				40	160	_					15					
2N4069 2N4072	AP.	S	N	1W 1,5W	175	150 40	150				30	L	30			ļ		50					
2N4072 2N4073	AHP	S S	N	1.5W	200 205	40	20 20				10		25A 25A		-			550 550		-		-	-
2N4074	AH	S	N	400	175	40	40				10		23A	400		-		550				-	
2N4081	AH	S	N	200	113	40	40				40	180	2	400				600					
2N4104	AH	S	N	300	175	60	60	-			70	100		1400				540		_			
2N4111	AP	S	N	30W	,,,,	100	60	-			40	120	2A	1400				70	,		_		
2N4121	ΑН	s	Р	200	125	40	40				170		10	50		1		400					
2N4122	АН	S	Р	200	125	40	40				150		10	150				450					
2N4123	SH	S	N	310	125	40	30					150		50				250					
2N4124	SH	S	N	310	135	30	25				120	360	2	120				300					
2N4125	SH	S	Р	310	135	30	30				50	150	2	50				200					
2N4126	SH	S	Ρ	310	135	25	25				120	360	2	120				250					
2N4127	AP	S	N	25W		60	40				10	80	200					300					
2N4128	AP	S	Ν	40W		60	40				10	80	200					200					
2N4134	АН	S	Ν	200	200	30	30							200				350					
2N4135	АН		Ν	200	200	30	30							200		Ш		425					
2N4137	SP		N	360	200	40	40				_	120				Ш		500					*
2N4138	SC	\rightarrow	N	300	200	30	30	\dashv			50		1					20					
2N4140	AH	\rightarrow	N	300	125	60	30					120			- 1		L	250					
2N4141	AH	_	N	300	125	60	30					300						250					
2N4142	AH	S	P P	300	125	60	40				<u> </u>	120	150					200				\vdash	
2N4143 2N4207	AH SH	\rightarrow	P	300	125	60	40			\vdash		_	150			-		200			27		
2N4207 2N4208	SH	-	P	300	200	12	6	\dashv		\vdash		120	10			—		650		<u> </u>		\vdash	
2N4208 2N4209	SH		P		200	15	12			\dashv	_	_	10					700 850				-	
2N4205 2N4225	AP	\rightarrow	N	5W	200	100	40	\dashv		-		150	IA				-	150				\vdash	
2N4225 2N4226	\rightarrow	\rightarrow	N	5W		200	60	\dashv	-			_	IA IA			\vdash		150			\vdash		
2N4227	S	\rightarrow	N	_	125	60	30	\dashv		\dashv	40	150	150		-	\vdash		250	-+				
2N4228	\rightarrow	\rightarrow	Р	300	125	.60	40			\dashv	\dashv		150			\vdash		200					
2N4231	AP	-	N	-	200		40	\dashv		\dashv	25	100	1.5A			H		1	-		\vdash		
2N4232	$\overline{}$		N		200		60	\dashv		-	-		1.5A			\vdash		-					
	/ 0	·	::1	5577	-00		00				LJ	, 00	JA					- '					

2Nu026	TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2NA030										
2NA032									100	
2NA034										
NAME										1600
2NA056										4 4 1
2N4037										NG ST
NAMID SCRIPT SC			,							Value 2
NAME										
2N4033										
NAME			2SC831		2SC692		2SC1057			
2N4057										
2 N4054 Canadas Image: Canadas Imag									4, 3, 4	
2N4055								•		
2N4056						_				
2N4057										ļ
2N4058										
2N4059										
2N4060										
2N4061										
2N4062 2N4064 2N4069 2N4073 2SC319 2SC730 2SC730 2N4073 2SC319 2SC730 2SC730 2N4074 2N4074 2N4111 2N4111 2N4121 2N4122 2SC1213 2SC1210 2SC1318 2SC875 2N4124 2SC1213 2SC1210 2SC1318 2SC875 2N4126 2SC4696 2SC46										
2N4064										
2N4072										
280319										
28019 280730										
2N4074	2N4072						*			
2N4081			2SC319		2SC730					
2N4 104 2N4 111 2N4 121 2N4 121 2N4 122 2N4 122 2SC 1210 2SC 1318 2SC 875 2N4 125 2SC 1210 2SC 1318 2SC 875 2N4 125 2SC 806 2SC 806 2SC 806 2SC 806				10						
2N4 11 2N4 12 2N4 12 2SC 12 2SC 13 8 2SC 8 3 2SC 8 3 3 3 3 3 3 3 3 3										
2N4121		` `								
2N4122										
2801213 2801210 2801318 280875										
2801213 2801210 2801318 280875										
28A696 2			_							
28A696				2SC1213		2SC1318			2SC875	
2N4127										
2N4128					2SA696					
2N4134 2SC922 2SC723 2SC1129 2N4135 2SC922 2SC723 2SC1129 2N4137 2SC1129 2SC1129 2N4138 2SC1216 2SC689H 2SC302 2N4140 2SC979 2SC302 2SC203 2N4141 2SC979 2SC302 2SC203 2N4142 2N4143 2N4207 2SC302 2SC302 2N4208 3N4209 3N4209 3N4225 3N4226 2N4227 2SC979 2SC302 2SC203										
2N4135		2SC1077			2SC690					
2N4137				1						- 12
2N4138			2SC922				2SC723	2SC1129	_	
2N4140 2SC979 2SC302 2SC203 2N4141 2SQ979 2SC302 2SC203 2N4142 2SC302 2SC203 2N4143 2SC404 2SC204 2N4207 3SC404 3SC404 2N4208 3SC404 3SC404 2N4209 3SC404 3SC404 2N4225 3SC404 3SC404 2N4226 3SC404 3SC404 2N4227 2SC979 2SC302 2SC203 2N4228 3SC404 3SC404										24
2N4141 2SQ979 2SC302 2SC203 2N4142 2N4143 2N4207 3 2N4208 3 2N4299 3 2N4225 3 2N4226 4 2N4227 2SC979 2SC302 2SC203 2N4228 3			2SC1216	2SC689H					2SC933	
2N4142 2N4143 2N4207 2N4208 2N4209 2N4225 2N4226 2N4227 2SC979 2SC302 2SC203 2N4228									-	
2N4143 2N4207 2N4208 2N4209 2N4225 2N4225 2N4226 2N4227 2SC979 2SC302 2SC203		2SQ979			2SC302		2SC203			
2N4207 2N4208 2N4209 2N4225 2N4226 2N4227 2N4227 2N4228										
2N4208 2N4209 2N4225 2N4226 2N4227 2N4227 2SC979 2SC302 2SC203										15.5
2N4209 2N4225 2N4226 2N4227 2SC979 2SC302 2SC203 2N4228										1100
2N4225 <										
2N4226 2N4227 2N979 2SC302 2N4228 3										301
2N4227 2SC979 2SC302 2SC203 2N4228										1000
2N4228										15-10
		2SC979			2SC302		2SC203			1.0
2N4231									- 12	PATTER.
2N4232										32111

1277		7	>	MA	XIMUI	M R	ATINGS	3			100		EL	ECTRICA	L CHAP	RACTERI	STICS					OUTLINE	100
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vcs	VCEO	le	Ice	00		hre		hfe	hie	hre	hoe	f⊤ ∗fae	NF	Cob	Coxrbb	TO.	NOTE
		M	04	(mW)	(°C)	(V)	(V)	(mA)	(µA)	V _{OB} (V)	min.	max.	ic (mA)		(Ω)	(×10)	(MQ)	**fab (MHz)	(dB)	(pF)	(ps)	10.	
2N4234	SP	S	Р	1W	200	40	40				30	150	250					3		<u> </u>			
2N4235	SP	S	Р	IW	200	60	60				30	150	250					3					
2N4237	AP	S	Р	5W	175	50	40				40	160	500	40		L		10					
2N4238	AP	S	Р	5W	175	80	60				40	160	500	40				10				15	
2N4248	Α	S	Р	200	125	40	40							50				40					
2N4249	Α	S	P	200	125	60	60							100				40					
2N4250	Α	S	P	200	125	40	40							250				40					
2N4251	S	S	N	250	200	15	10				100		10					1300					
2N4252	АН	S	N	200	175	30	18				50		2					600					
2N4253	АН	S	N	200	175	30	18				30		2					600					
2N4254	A	S	N	200	175	30	18				50		2										
2N4255	A	S	N	200	125	30	18				30		2 .										
2N4256	A	S	N	200		30	30	100	0. InA	30	100	500	2					200				98	GE
2N4257	SH	S	Р	200	125	6	6				30	120				1		500					
2N4258	SH	S	P	200	125	12	12				30	120	10					700					
2N4259	AH	S	N	175	175	40	30				-		-	70				1					
2N4260	SH	S	P	200	200	15	15		<u> </u>		30	150	10	16		+		1500			\vdash		
2N4261	SH	S	P	200	200	5	15				30	150	15A	20		+		2000		+		 	
	AP		N	1.5W	200	25	10				75	130	300	20				600			+		
2N4262		S				_						_				₩-		800			+	-	
2N4263	AP	S	N	1.5W	105	25	10				75	100	300			+			<u> </u>		+	\vdash	
2N4264	S	S	N	310	135	30	15			<u> </u>	4	160	10			+		300			-		
2N4265	SH	S	Р	310	135	30	12				100	400	15					300				\vdash	
2N4271	AP	S	N	5W		175	140				20	140	200					20				\vdash	
2N4274	SH	S	N	280	125	30	12				18		100					400			_	\vdash	
2N4275	SH	S	N	280	125	40	15				18		100					400			_	\vdash	
2N4284	Α	S	Ρ	250	165	25	25				<u></u>	600											
2N4285	Α	S	Р	250	165	35	35				L	600	I										
2N4286	Α	S	N	250	†50	30	25							600			1	40					
2N4287	Α	S	Ν	250	150	45	45							600				40					_
2N4288	A	S	Р	250	150	30	25							600				40					
2N4289	Α	S	P	250	150	60	40							600				40					
2N4290	Α	S	Ρ	250	150	30	20							600				40					
2N4291	A	S	Р	250	150	40	30							600				40					
2N4292	Α	S	N	200	150	30	15				20		3					600					
2N4293	A	S	N	200	150	30	15							60				600			1		
2N4294	SH	S	N	200	150	30	12				30	120	10			—		400			+		
2N4295	SH	S	N	200	150	40	15				40	120	10			+		500			+		
2N4296	SP	S	N	20W		350	250			+	50	150	50					20	<u> </u>		1		
2N4297	AP	S	N	20W		350	250	-	-	+-	75	300	50			+-		20			+		
2N4397	AP	S	N	1.5W		100	60		_	+	50	150	IA			+	-	- 20		<u> </u>	+	 	
2N4307	AP	S	N	4W		100	60				50	150	IA			\vdash	-		_		+		
	-	-	-	1.5W			60			-	40	120	IA	-		\vdash				-	+	\vdash	
2N4311 2N4312	AP	S	N	1.5W		100	_			-	40	120	IA			+				+	+-	 	
		S	N		ļ	100	60			-	-		_			+	-	200	<u> </u>	-	+	\vdash	
2N4314	AP	S	P	IW	000	90	65	-	-	-	50	250	150	\vdash		1		200		-	+		
2N4347	AP	S	N	100W	200	140	120	5A	<u> </u>	_	15	60	2A	\vdash	<u> </u>	+	-	-	_	-	+	3	GE
2N4348	AP	S	N	120W	200	140	120	10A		_	15	60	5A			-				-	1	3	GE
2N4350	AP	S	N	7W		65	40			-	10	200						300	_	<u> </u>	-		
2N4354	Α	S	Р	350	125	60	60				25		100	$ldsymbol{ldsymbol{eta}}$		_		500		<u> </u>	_	\sqcup	
2N4355	A	S	P	350	125	60	60		L		60		100				L	500			_		
2N4359	Α	S	Р	360	200	45	45				50	600	1	50									
2N4383	АН	S	N	800	200	40	30	L	L		L			1000				120					
2N4384	AH	S	N	500	200	40	30			L^{T}				1000		L		120					
2N4385	АН	S	N	800	200	40	30							1000				120					
2N4386	АН	S	N	500	200	40	30							1000				120					
2N4387		S	Р	20W	200	40	40				25	100	500								1		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY .	SANYO	NOTE
2N4234		2SA635	2SA715	2SA624					
2N4235	127	2SA635		2SA624					
2N4237									
2N4238									
2N4248				2SA696		2SA558			
2N4249				2SA697		20/330			1
2N4250		-		2SA696		2SA558			
2N4251				20,000					-
2N4252	2SC384	2SC922				2SC724			-
2N4253	2SC384	2SC922				2SC724			+
2N4254	2SC384	2SC922				2SC724			
			-		-				-
2N4255	2SC384	2SC922	200452	000710		2SC714			+
2N4256	2SC400		2SC458	2SC713		2SC724			-
2N4257			-	-	-		-		111
2N4258									4 379
2N4259	9					1			100
2N4260									1
2N4261								4	
2N4262									
2N4263									100
2N4264									
2N4265									
2N4271									
2N4274			,						
2N4275					1				
2N4284			- 7 9 7						
2N4285		in the second			Size.		Tr Was		
2N4286	2SC752©	2SC1274	2SC689(H)	2SC619		2SC724		2SC933	
2N4287	2SC734	2SC1274		2SC620	A STATE OF THE STA	2SC725			1
2N4288		-							
2N4289									15-5
2N4290									
2N4291									-
2N4292	2SC383	2SC922		2SC763			2SC1129		
2N4293	2SC383	2SC922		2SC763			2SC1129		- 4
2N4294	200000	200022		200,00			2001120		
2N4295									
2N4296						. 4 8		-	1
2N4297			-			_			
2N4307			-	-	+				-
2N4307 2N4308				-		1		-	
2N4311			-					-	
2N4311 2N4312								7	
2N4314	200-112	200010				200177	200004.0		
2N4347	2SD118	2SD218				2SD177	2SD88A-2		
2N4348						*****	2SD340		-
2N4350	2SC549	2SC598	_	2SC691		2SC542			17.5
2N4354									
2N4355									10 10
2N4359									6-14-
2N4383	2SC503	2SC960	2SC480	2SC306	2SC696			5 (83%	6 5-1
2N4384	2SC503	2SC960	2SC480	2SC306	2SC696	2SC200			1
2N4385	2SC503	2SC 960	2SC480	2SC306	2SC696				357647
2N4386	2SC503	2SC 960	2SC 480	2SC306	2SC696	2SC200			1276
2N4387	- 24								

				MA	XIMUI	M R	ATINGS	3					EL	ECTRICA	L CHAR.	ACTERI	STICS			<u> </u>	_		45
TYPE	USE	RA	É	Pc	Tj	Vcs	VCEO	1c	Los	10	Γ	hre		bte	hie	hre	hoe	fт	NF	Cob	Coxrbb	OUTLINE	NOTE
1112	USE	MATERIAL	POLALITY	25°C (m W)	(°C)	(A)	(V)	(mA)	(μA)	Vce(V)	min.		Ic (mA)	III E	(Ω)	(×10)	(µ8)	*fαe **fαb (MHz)	(dB)	(pF)	(ps)	TO.	
2N4388		S	P	20W	200	60	60		iμni	*CB(*)	25						-	(MH2)		-			
2N4389	SH	S	N	200	125	12	12				30	80	10	4			_			+	+		
2N4400	SH	S	N	310	135	60	40				50	150	150	20				200		\vdash			
2N4401	SH	S	N	310	135	60	40				100	300	150	40				250					
2N4402	SH	S	Р	310	135	40	40				50	150	150	30				150					
2N4403	SH	S	P	310	135	40	40			_	100	300	150	60				200			-		
2N4409	S	S	N	310	135	80	50				60	400	130	00				200					
2N4410	S	S	N	310	135	120	80				60	400	1							 			
2N4410 2N4412	AH	S	P	600	200	40	30	-			00	400		1000			-	100					
2N4412 2N4413	AH	S	P	400	200	40	30					_		1000		-	-	100					
2N4413 2N4414	AH	_	P	600	_	-	30				_			1000				100		-			
	-	S	P	400	200	40					_												
2N4415	АН	S		_	200	40	30				40	1.00		1000		ļ		100			-		
2N4418	S	S	N	250	125	40	40	-	<u> </u>		40	120				-		500				<u> </u>	
2N4419	S	S	N	250	125	30	30				30	165	10					400					
2N4420	S	S	N	250	125	40	40				30	120						350			-		
2N4421	S	S	N	250	125	30	30				25		30					330		_	<u> </u>		
2N4423	S	S	N	250	125	12	12	L			40	150	30	L				440			<u> </u>		- 25
2N4424	S	S	N	360	150	40	40	500	0.03	_	180		2	180						-		98	GE
2N4425	S	S	N	360	150	40	40	500	0.03	40	180		2	180								98	GE
2N4428	AP	S	Ν	3.5W		55	35				_	220						700					
2N4429	AP	S	Ν	5W		55	35			_	20	200	50					700					
2N4430	AP	S	Ν	10W		55	40				20	200	100					600					
2N4432	АН	S	Ν	600		50	30				40	130	6	45									
2N4432A	АН	S	N	600		50	30				80	150	6	90									
2N4436	AHP	S	Ν	200	125	60	30				40	120	150					250					
2N4437	AHP	S	N	200	125	60	30				100	300	150					250					
2N4440	AP	S	Ν	11.6W		65	40				10	200	125					400					
2N4452	S	S	Ρ	350	200	45	45				115	300	50	135				200					
2N4453	S	S	Ρ	300			18				40		30					400			ļ		
2N4872	SH	S	Ρ	700	200	12	12				50	120	10	9									
2N4873	SH	S	Ν	360	200	40	15				110	150	10	7							ļ.,,		
2N4874	АН	S	Ν	720	175	30	20					-		200				900					
2N4875	АН	S	Ν	720	175	40	25							200		ļ		800					
2N4876	АН	S	Ν	720	175	40	30							200		<u> </u>		650					
2N4877	AP	S	Ν	10W	200		60				$\overline{}$	200						4					
2N4890	S	S	Ъ	IW		60	40			222	50	250	150	5								<u> </u>	
2N4898	AP	S	Ρ	25W	200	40	40				20		500	25				3	L				
2N4899	AP	S	P	25W	200	60	60				20	_	500	25				3	- 4		ļ		
2N4910	AP	S	Ν	25W	200	40	40				20	_	500	25				3					
2N4911	AP	S	Ν	25W	200	60	60				20	100	500	25				3					
2N4916	SH	S	Ρ	500	125	30	30				70	200	10					400					
2N4917	SH	S	Ρ	500	125	30	30				150	300	10					450					
2N4918	AP	S	Р	30W	150	40	40				20	100	500	25				3			<u> </u>		
2N4919	ΑP	S	P	30W	150	60	60				20	100	500	25				3	L				
2N4921	AP	S	N	30W	150	40	40				20	100	500	25				3					
2N4922	ΑP	S	Ν	30W	150	60	60				20	100	500	25				3					
2N4923	AP	S	Ν	30W	150	80	80				20	100	500	25				3					
2N4924	АН	S	Ν	IW	175	100	100				40	200	150					100				L	
2N4925	АН	S	Ν	IW.	175	150	150				40	200	150					100					
2N4926	АН	S	Ν	IW	175	200	200				20	200	30	25				300					
2N4927	АН	S	N	IW	175	250	250				20	200	30	25				300					
2N4944	Α	S	Ν	600	125	80	40				40	100	150					60					
2N4945	Α	S	Ν	600	125	80	60				40	100	150					60					
2N4946	Α	S	Ν	600	125	80	40				100	300	150					60					
2N4951	Α	S	N	360	150	60	30				60	200	150					250 ·					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4388								1	RESE
2N4389									
2N4400	2SC734		_	2SC1211	2SC1318	2SC1247		2SC875	4957
2N4401	2SC734			2SC1211	2SC1318	2SC1247		2SC875	1331
2N4402				2SA696					1755
2N4403				2SA696					37.445
2N4409	2SC506	2SC1278	2SC857	2SC869	2SC1033				7.47
2N4410	2SC506	2SC1278	2SC857	2SC869	2SC1033				THE REAL PROPERTY.
2N4412	•	2SA636	2SA715	2SA624		-			
2N4413		2SA636	2SA715	2SA624					
2N4414		2SA636	2SA715	2SA624					
2N4415		2SA636	2SA715	2SA624		_	_		
2N4418						_			
2N4419									
2N4420									
2N4421									41
2N4423									2.77
2N4424	2SC1382				2SC1318	2SC1247			
2N4425	2SC1382			_	2SC1318	2SC1247			-
2N4428				2SC976	1 2 1 1				
2N4429				2SC976					
2N4430		2SC892		2SC975	2SC1075	_		- 1	
2N4432	2SC998			2SC741	2SC456			F 7	
2N4432A	2SC998			2SC741	2SC456				
2N4436	2SC998			2SC741	2SC456				
2N4437	2SC998			2SC741	2SC456			6	
2N4440	200000			2SC692					
2N4452									
2N4453									
2N4872									
2N4873					-			170	
2N4874	2SC503			2SC976					
2N4875	2SC503			2SC976				+	
2N4876	2SC503			2SC976	 				1
2N4877	200303			250370	1		1.516	111111111111111111111111111111111111111	
2N4890				1	+ +				
2N4898			-	+	1				
2N4899				_					
2N4910								-	
2N4911							-		10.00
2N4916								1	
2N4917								1	115
2N4917 2N4918		+						1	
2N4918 2N4919		+	-	+					200
2N4919 2N4921		 		_	-		-		
2N4921 2N4922		 	1	+					
2N4922 2N4923		 							10
2N4923 2N4924				-					1
2N4924 2N4925		 							13.197
									1
2N4926		-		+				+	1/30
2N4927				9001011	2SC1318		-	2SC875	
2N4944				2501211	2501318		-	2300/5	- V (X/E)
2N4945	_	·		2501211	2001310			2SC875	
2N4946		V	-	2SC1211	2SC1318		1	2508/5	10 20 M
2N4951									Accept

		A	7		AXIMU	M	RATING	S					_	ECTRICA	L CHAR	ACTER	ISTICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (mW)	Tj (°C)	V _{CB}	V _{CE0}	ic (mA)	اد (یم)	80 V08(V)	min.	hre max.	Ic (mA)	hfe	hie (Ω)	hre (×10)	hoe (μτ)	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N4952	A	S	N	360	150	60	30			1	100	300	150					250					
2N4953	A	S	N	360	150	60	30				200	-	150					250	_			_	
2N4954	A	S	N	360	150	40	30				60		150					250					
2N4957	A	S	P	200	200	30	30				20	40	2		-			1200					
2N4958	A	S	P	200	200	30	30				20	40	2					1000					
2N4959	А	S	P	200	200	30	30				20	40	2					1000					
2N4964	A	S	P	200		50	40				30	120	0.01	40				-			<u> </u>		
2N4965	А	S	P	200		50	40				80	400	0.01	100									
2N4966	Α	S	N	200		50	40				40	200	0.01	40									
2N4967	Α	S	N	200		50	40				100	600	0.01	100									
2N4968	Α	S	N	200		30	25				40	200	0.01	40									
2N4969	SH	S	N	200		50	30				40	120	150										
2N4970	SH	S	N	200	_	50	30			1	100	350	150										
2N4971	SH	S	Р	200		50	40				40	120	150										
2N4972	SH	S	Ρ	200		50	40				100	300	150										
2N4976	AHP	S	Ν	5W		55	30				20	250	50					1000					
2N4994	АН	S	N	200		60	45	30	0.1	30	40	160	10									18	GE
2N4995	AH	S	N	200		60	45	30	0.1	30	100	400	10									18	GE
2N4996	AH	S	N	200		30	18				50		2										
2N4997	AH	S	N	200		30	18				30	150	2										
2N5022	SH	S	Р	IW		50	50				25	100	500						_				
2N5023	SH	S	Р	IW		30	30				40	100	500										
2N5027	S	S	Ν	320	120		30				50	150	150										
2N5028	S	S	Ν	320	120		30				100	300	150										
2N5029	S	S	N	320	120		15				40	120	10										
2N5030	S	S	N	320	120		12				30		10									•	
2N5031	АН	S	N	200		15	10				25	300	1										
2N5032	АН	S	N	200		15	40				25	300	1										
2N5040	A·	S	Ρ	300	125	25	25				30	60	150					100					
2N5041	Α	S	Ρ	300	125	40	40				40	150	150					80					
2N5042	Α	S	Ρ	800	200	40	40				40	150	150					100					13
2N5053	АН	S	Ν	200	200	30	15				25	150	2					1300					
2N5054	AH	S	N	200	200	30	15				25	150	2					1300					
2N5055	SH	S	Ρ	200	125	12	12				30	100	30										
2N5056	SH	S	Ρ	360	200	15	15				30	100	30										
2N5058		S	Ν	IW	200	300	300				35	150	30										
2N5059		S	Ν	IW	200	250	250				$\overline{}$	_	30										
2N5065	SH	S	N	2.5W	200	25	15				50	120	300					550					
2N5066	SC	S	Ν	400		30	20											5					
2N5079	Α	S	Ν	1.8W		60	30			_	-	300						400					
2N5080	Α		N	1. 8W		60	30			_		-	150					500					
2N5081	-	S	N	1. 2W		70	50				_	400	1	100]	600			•		
2N5082	АН	_	Ν	1.2W		60	30				_	,00	ı	100		¥		600					
2N5086	A	_	Р	310	135	50	50			$\overline{}$	_	500		250				40					
N5087	-	_	Ρ	310	135	50	50			\rightarrow	_	_	0.	250				40]			
2N5088	Α		Ν	310	135	35	35			_			0.	350		_		50					
N5089	Α	\rightarrow	N	310	135	30	25			_	_		0. I	450				50					
2N5106	\rightarrow	S	Ν	800	200	60	30				_	_	150				· _	250]	`	
2N5107			N	360	200	60	30				_		150					250					
2N5112	\rightarrow	\rightarrow	Ρ	34W	175	40	40	I]		15		500	10				1					
2N5127	-	\rightarrow	Ν	200	125	20	12				15	300	2	12									
2N5128	-	\rightarrow	Ν	200	125	15	12				-	350	\rightarrow						T				
2N5130	Α		N	200	125	30	12						8	12]						
2N5131			Ν	200	125	20	15				_	500	10	25									
2N5132	A	S	Ν	200	125	20	20				30	400	10	20			T		П		╗		

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
LIFE	TOSTIEM		minacin		.arxi oddiiriR	1 03.1100	50,11	5,10	,,,,,,
2N4952									
2N4953								- 6.0	
2N4954									
2N4957								1	
2N4958				-					11,000
2N4959				2SA696		2SA558			
2N4964 2N4965				2SA696	1	2SA558			S (2)
2N4966	2SC506	2SC1278	2SC857	2SC869	2SC1033	20/330			12.53
2N4967	2SC506 2SC506	2SC1278	2SC857	2SC869	2SC1033				
2N4968	230300	2301270	200037	250711	2001000	V		2SC933FP	-
2N4969				2SC1210	2SC1318	2SC1247A		2SC875	0.5
2N4969 2N4970				2SC1210	2501318	2SC1247A		2SO875	111
2N4970 2N4971			-	2501210	2501310	200124174		200073	
2N4971 2N4972					 	-		-	1 1 1 1 1 1
2N4972 2N4976		2SC831		2SC976	+ 1	2SC 1058			
2N4976 2N4994		2SC839	2SC 463	200310	 	200 1000	2SC 634	2SC933FP	-
2N4994 2N4995		2SC839	2SC 463	-			2SC634	2SC933FP	
2N4995 2N4996		230033	230403				200004	2003001	- 77-11
2N4997								,	
2N5022									
2N5023		_							
2N5027				1.5-25					
2N5028					-				
2N5029									
2N5030				 	2				
2N5031			,	-				Control of	
2N5032				+					
2N5040				1		6	Et ply		
2N5041									
2N5042				_					
2N5053									-
2N5054						-			- 2
2N5055				-					_
2N5056				<u> </u>					
2N5058	<u> </u>								_
2N5059							P.		
2N5065								N	
2N5066				-					
2N5079				-		`			
2N5080									
2N5081					-				ļ
2N5082									-
2N5086									-
2N5087		*******		20027	200044	_	200022		_
2N5088	2SC733	2SC900		2SC871	2SC644		2SC632		1,450
2N5089	2SC 733	2SC900		2SC871	2SC644		2SC632		
2N5106			<u> </u>	· ·	-				· A
2N5107		,			_			<u> </u>	
2N5112				1			******	***************************************	-
2N5127	2SC732	2SC838	2SC461	2SC711			2SC631A	2SC933FP	-
2N5128			2SC1213	2SC1210	2SC1318	2SC1247A			
2N5130	2SC387A	2SC 922				2SC723 ·	2SC1129	*****	
2N5131		2SC 1216		2SC619		2SC724		2SC933	
2N5132	2SC732	2SC838	2SC461	2SC711			2SC631A	2SO933FP	

		급	>		AXIMU	M F	ATING:	S					El	ECTRICA	L CHAR	ACTER	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25*C	Tj (°C)	Vcs (V)	V _{CE0}	lc (mA)	lei	_	_	hre		hfe	hie (Ω)	hre (×10)	hoe (µ\dots)	*fae **fab	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
0115 1 00	-	-	_	(mW)				(HIA)	(µA)	V _{OB} (V)		_	Ic (mA)		132)	(X10)	(ДО)	**fab (MHz)	(00)	(pr)	(ps)		
2N5133	A	S	N	200	125	20	18				60			50				_		-	-		
2N5134	SH	S	N	200	125	20	10				20	150								_	-		
2N5135	A	S	N	300	125	30	25	ļ			50	600	10	L									
2N5136	Α	S	N	220	125	30	20	_		ļ	20	400	150					ļ					
2N5137	A	S	N	300	125	30	20	L		_	20	400	150			L							
2N5138	A	S	Р	200	125	30	20			_	50	800	0. I	40									
2N5139	SH	S	Р	200	125	20	20	<u> </u>	ļ		40		1					_					
2N5142	SH	S	Р	300	125	20	20				30		50										
2N5143	SH	S	Р	200	125	20	20	_		ļ	30		50								ļ		
2N5160	AHP	S	Р	5W		60	40	_			10		50		L	ļ.,		500					
2N5161	AHP	S	Р	20W		60	40	2	ļ	ļ	10		250										
2N5172	A	S	N	200		25	25	100	0. 1	25	100	500	10	100				200				98	GE
2N5174	Α	S	N	200		90	75	25	0.5	60	40	600	10	40		<u> </u>						98	GE
2N5175	Α	S	N	200		130	100	25	0.5	60	55	160	10	55								98	GE
2N5176	Α	S	Ν	200		130	100	25	0.5	60	140	300	10	140							1	98	GE
2N5189	SH	S	N	IW		60	55				15		1										
2N5190	AP	S	N	40W	150	40	40				25	100	1.5A	20									
2N5191	AP	S	N	40W	150	60	60				25	100	1.5A	20				4					
2N5193	AP	S	Р	40W	150	40	40				25	100	1.5A	20									
2N5194	AP	S	Р	40W	150	60	60				25	100	1.5A	20									
2N5209	A	S	N	310		50	50				100	300	0. i	150									
2N5210	Α	S	N	310		50	50				200	600	0. I	250									
2N5213	AHP	S	N	7. 5W	200	70	40				10	80	200					350					
2N5219	Α	S	Ν	310		20	15				35	500	2	35								-	
2N5220	Α	S	N	310		15	15				30	600	50	20									
2N5221	Α	S	Р	310		15	15				30	600	50	30									
2N5222	Α	S	N	310		20	15				20	1500	4	20									
2N5223	Α	S	N	310		25	20				50	800	2	50									
2N5224	SH	S	N	310		25	12				40	400	10										
2N5225	Α	S	N	310		25	25				30	600	50	30									
2N5226	Α	S	Р	310		25	25				30	600	50	30							_		
2N5227	A	S	Р	310		30	30				50	700	2	10									
2N5232	Α	s	N	330	125	70	50	100	0.03	50	250		2	250					I KHZ			98	GE
2N5232A	Α	s	N	330	125	70	50	100	0.03	50	250		2	250					1 KHZ 1.9			98	GE
2N5236	АН	s	N	iw	200	40	20				30	120						500	1.3				
2N5242	SH	s	Р	500			20				25	_	500					170			_		
2N5243	SH	s	P	500			30				25	100	500			-		170					
2N5244	SH	s	P	1W	200	\vdash	40				150	300	10					450			+		
2N5249	A	s	N	330	125	70	50	100	0. 03	50	400		2	400		Н		1.50	I KHZ			98	GE
2N5249A	A	s	N	330	125	70	50	100	0. 03	50	400		2	400					1 KHZ		-	98	GE
2N5252	A	s	N	7W		300	300		3.00		40		100		-			30					
2N5253	A	S	N	7W		300	300				80	_	100					30			+		·
2N5262	SH	S	N	IW		75	50				35		100										
2N5272	SH	s	N	360	\vdash	40	40				100	400	10			\vdash		500					
2N5276	S	S	Z	360	\vdash	25	15	-			30	90	10			\vdash		600	-		-		
2N5279	AH	S	Z	5W	\vdash	400	.5				40	_	20			\vdash		15					
2N5292	SH	S	P	IW	200	400	12		\vdash		. 40		30					800			-		
2N5292 2N5295	AP	S	N	360	150	60	50		-		30	120	IA	20				300				- 40	
2N5295 2N5296	AP	S	Z	360	150		50				30										-		
2N5296 2N5297	AP			360		60	70		-			120	IA	20	_			-			-		
	_	S	N		150	60	_	-			20	_	1.5A	25				\vdash					
2N5298	AP	S	N	360	150	80	70	202			20	-	1.5A	25		\sqcup							
2N5305	AL	S	N	450		25	25	300	0. 1	25	2K		2	2K				60					
2N5306	AL	S	N	400		25	25	300	0, 1	25	7K		2	7K				60			<u> </u>		
2N5306A	AL	S	N	400		25	25	300	0. 1	25	7K		2	7K				60					
2N5307	AL	S	N	400		40	40	300	0.1	40	2K	20K	2	2K				60			L		

TYPÉ	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5133	2SC732	2SC838	2SC461	250711			2SC 631A	2SC933FP	
2N5134	2SC979		2SC907H	2SC300	- 1	2SC203	2SC1128	2SC423	
2N5135			2SC1213	2SC1210	2SC1318	2SC1247A	1		
2N5136			2SC1213	2SC1210	2SC1318	2SC1247A			
2N5 37			2SC1213	2SC1210	2SC1318	2SC1247A			
2N5138				2SA696		2SA558			
2N5139		-		2SA696		2SA558			
2N5142				2SA696		2SA558			
2N5143				2SA696		2SA558			
2N5160									
2N5161									
2N5172	2SC1000		2SC458	250712		2SC1372	2SC633A	2SC933FP	
2N5174	2SC506	2SC1279	2SC857	2SC869	2SC1033	200,012		20000011	
2N5175	2SC506	2SC1279	2SC857	2SC869	2SC1033				
2N5176	2SC506	2501279	2SC857	2SC869	2SC1033				
2N5189	200000	2001273	200007	255555	2001000		1		61
2N5190									717
2N5190 2N5191									
2N5191 2N5193						-			
2N5193 2N5194									
								· ·	
2N5209	•								
2N5210									
2N5213									
2N5219									
2N5220									
2N5221							***		
2N5222							3154		
2N5223									
2N5224									
2N5225									
2N5226									
2N5227									
2N5232	2SC979		2SC984	2SC714		2SC205			
2N5232A	2SC979		2SC984	2SC714		2SC205			
2N5236									
2N5242									
2N5243				,					
2N5244									
2N5249	2SC979		2SC984	2SC714		2SC205			
2N5249A	2SC979		2SC984	2SC714		2SC205			
2N5252						-			
2N5253		_							
2N5262									
2N5272									
2N5276									
2N5279									
2N5292									
2N5295				010					
2N5296									
2N5297									
2N5298									
2N5305									
2N5305 2N5306					-				-
2N5306A					 				
	2a								100
2N5307				<u> </u>	1	1			1

		AL	7		AXIMU	M R	ATING	S					EL	ECTRICA	L CHAR	ACTER	ISTICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vcs	VCEO	le	lc	_		hee	_	hfe	hie	hre	hoe	*fae	NF	Cob	Coxrbb	OUTLINE TO.	NOTE
15				(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.		Ic (mA)	,	(Ω)	(×10)	(µʊ)	**fab (MHz)	(dB)	(pF)	(ps)		
2N5308	AL	S	N	400		40	40	300	0. 1	40	7K	70K		7K		ļ		60					GE
2N5308A	AL	S	N	400		40	40	300	0. 1	40	7K	70K		7K				60					GE
2N5309	A	S	N	330		70	50	100	0.01	50	60	120		66								98	GE
2N5310	Α	S	N	330		70	50	100	0.01	50	100	300	_	10							<u> </u>	98	GE
2N5311	Α	S	N	330		70	50	100	0.01	50	250	_	0. I									98	GE
2N5321	SP	S	N	10W	200	75	50	2			40	250	500					50					
2N5322	SP	S	P	10W	200	100	75				30	130						50			y.		
2N5323	SP	S	Р	IOW	200	75	50	1			40	250						50					_
2N5334	SP	S	N	6W	200	60	60				30	150	IA					40					
2N5354	Α	S	Р	360	125	25	25	350	0. 1	25	40	120	50	32				250				98	GE
2N5355	Α	S	Р	360	125	25	25	350	0. I	25	100	300		80				250				98	GE
2N5356	Α	S	Р	360	125	25	25	350	0.1	25	250	500	50	200				250				98	GE
2N5365	A	S	Р	360	125	40	40	700	0. I	40	40	120	50	32				250				98	GE
2N5366	Α	S	Р	360	125	40	40	700	0. 1	40	100	300	50	80				250				98	GE
2N5367	Α	S	Ρ	360	125	40	40	700	0.	40	250	500	50·	200				250				98 .	GE
2N5368	Α	S	N	360	150	60	30	500	0. 05	40	60	200	150					250				18	GE
2N5369	Α	S	N	360	150	60	30	500	0. 05	40	100	300	150					250				18	GE
2N5370	Α	S	N	360	₹50	60	30	500	0. 05	40	200	600	150					250				18	GE
2N5371	Α	S	N	360	150	40	30	500	0.05	40	60	600	150					250			<u> </u>	18	GE
2N5372	Α	S	Р	360	150	60	30	500	0.05	40	40	120	150					150				18	GE
2N5373	Α	S	Р	360	150	60	30	500	0.05	40	100	300	150					150				18	GE
2N5374	Α	S	Р	360	150	60	30	500	0. 05	40	200	400	150					150				18	GE
2N5375	Α	S	Р	360	150	40	30	500	0.05	40	40	400	150					150				18	GE
2N5376	Α	S	Ν	360	150	60	30				100	500	0.01	120				300					
2N5377	A	S	Ν	360	150	60	30				40	200	0.01	100				300		,			
2N5378	Α	S	Ρ	360	150	40	30				100	500	0.01	120				200					
2N5379	A	S	Р	360	150	40	30				40	200	0.01	100				200			_		
2N5417	SH	S	N	500	105	40	35				80	250	150					250					
2N5418	Ą	S	N	360	125	25	25	500	0. 1	25	40	120	50	25				250				98	GE
2N5419 2N5420	A	S	N	360	125.	25	25	500	0.	25	100	300	50	70				250				98	GE
2N5421	A AHP	S	N	360 3W	125	25 36	25	500	0. I	25	250	500	50	150				250				98	GE
2N5421	AHP	S	N	5W		36	18	-			10	60	100					300			_		
2N5422	\rightarrow	S	N	12W			18				10	60	500					300					
2N5423 2N5424	AHP	-	N	-		36	18				20	70	IA					300			_		
2N5424 2N5447	AHP A	S	N	20W 360		36		200	0 1	20	20	100	2A		-	-		250					0.5
2N5447 2N5448	A	S		360		40	25	200	0.1	20	30	300	50									18	GE
2N5449	A	S	N	360		50	30	200 800	0. I	20	100	150 300	50					-				18	GE
2N5450	A	S	N	360		50	30	800	0.1	20	50	-				-							GE
2N5451	A	S	N	360		50	40	800	0.1	20	30	600	50									18	GE
2N5455	SH	S	P	340	200	15	15	300	U. I	20	30	120	30					450			-	10	GE
2N5456	SH	S	P	340	200	25	25				30	120	30					450					
2N5471	AP	-	N	5W	200	50	30	-+		\vdash	20	120	50			-		450			\vdash		
2N5482	AHP	S	N	10W		50	30				20		50				\neg	-	-			-	
2N5483	AHP	S	N	20		45	30	-			20	-	100	-									
2N5489	AP	S	N		200	100	100	\dashv			15	50	40A	10			-	-			\vdash	_	
2N5590	AP	s	N	30W		36	18				. 5	50	250	10				200			\vdash		
2N5597	AP	S	Р	20W	200	80	60				_	200	IA I	50				60			\vdash		
2N5598	AP		N	20W	200	80	60					200	IA	50				60	\dashv				
2N5606	AP	s	N	25W	200	80	60					200	2. 5A	50				70	_				
2N5614	AP	S	N	58W	200	80	60	\neg				_	2. 5A	50				70				-	
2N5637	Α	S	N	30W		60	35				5		500			-+		400				_	
2N5642	A	S	N	30W		65	35			-	5	\dashv	200			_		250				_	
2N5644	AP	S	N	3. 5W		36	18				15	\dashv	100			_		400		-		-	
2N5645	AP	S	N	12W		36	18				15		500			_		400				-+	

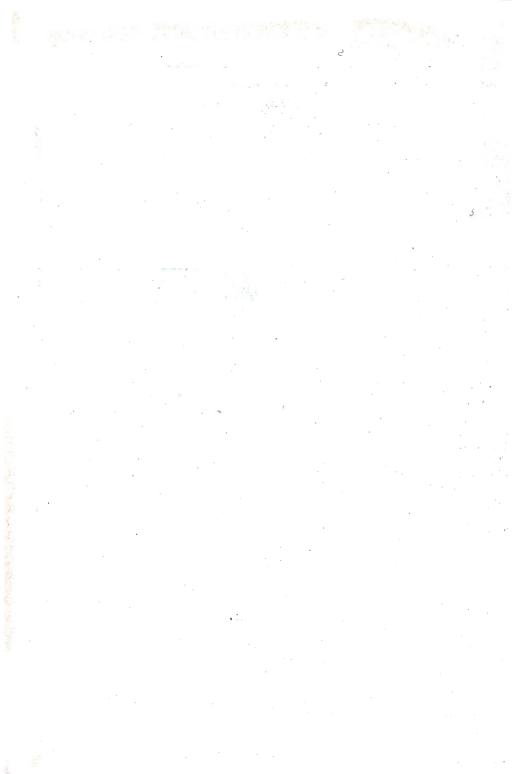
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5308									
2N5308A									
2N5309	2SC979		2SC984	2SC714		2SC205			
2N5310	2SC979		2SC984	2SC714		2SC205			
2N5311	2SC979	·	2SC984	2SC714		2SC205			
2N5321					-				
2N5322									
2N5323 2N5334									
2N5354 2N5354		2SA643			2SA719			-	
2N5354 2N5355		2SA643			2SA719				
2N5356	-	2SA643			2SA719				-
2N5365		2SA571	2SA537H		2SA546				- 15
2N5366		2SA571	2SA537H		2SA546				
2N5367		2SA571	2SA537H		2SA546	_			
2N5368	2SC495		1200		2SC1347	2SC1247			90
2N5369	2SC495				2SC1347	2SC1247			78
2N5370	2SC495			THE IS	2SC1347	2SC1247			
2N5371	2SC495			1786	2SC1347	2SC1247			
2N5372		2SA607		17.6	2SA546	2SA580			
2N5373		2SA607			2SA546	2SA580			
2N5374		2SA607	·		2SA546	2SA580			
2N5375		2SA607			2SA546	2SA580			
2N5376						11 (4 11 11 11 11 11 11 11 11 11 11 11 11 11	12		
2N5377			·		-	275		-	- 3
2N5378									150
2N5379		_					200000000000000000000000000000000000000		
2N5417	000400			2001200	0001046	20012464			
2N5418 2N5419	2SC496 2SC496			2SC1209 2SC1209	2SC1346 2SC1346	2SC1246A 2SC1246A		Called to State	- 10 1
2N5419 2N5420	2SC496 2SC496	_		2SC1209 2SC1209	2SC1346 2SC1346	2SC1246A	813		
2N5421	230430	2SC 891		2SC910	2SC731	2001240A			
2N5422		200031		2SC910	200707				-
2N5423				2SC 702				-	
2N5424	2SC1121			2SC 702					
2N5447	2007727	2SC1216	2SC321(H)	2SC703		2SC131		2SC1175	
2N5448		2SC1216			2SC1318			2SC1175	
2N5449		2SC97A	2SC 480	ALTERNATION OF MARKET PARK		2SC1150			401
2N5450		2SC97A	2SC 480			2SC1150			
2N5451		2SC97A	2SC 480			2SC1150			
2N5455									
2N5456									
2N5471									
2N5482									
2N5483	-			1 2 3 3 3					1.9
2N5489									
2N5590									- 1
2N5597									- 40
2N5598								4	
2N5606						- 15			
2N5614 2N5637									-
2N5642								-	
2N5644				2SC909	2SC731				
		I .		200000	200701				

TYPE						M R	ATINGS							ECTRICA	L CHAN	MOTER	131103					AUTURE	
	USE	MATERI	POLALITY	Pc 25°C (mW)	Tj (℃)	Vca (V)	V080 (V)	Ic (mA)	lcs (µA)	V ₀₈ (V)	mia.	hrt max.	Ic (mA)	hfe	hie (Ω)	hre (×10)	hoe (µඊ)	f r *fαe **fαb (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOTE
2N5646	AP	S	N	30W		36	18				15		IA					400					
2N5650	AH	S	N	150	135	20	15			-	30	300				<u> </u>		2000		_	+		
2N5651	AH	S	N	150		20	15				30	300	300			-		2000	_				
2N5652	АН	S	N	150		20	15	-	-	_	30	300	300		_	+		2000			+		
2N5655	AP	s	N	20W	150	275	250				30	250	250	20		-		2000			-		
2N5656	AP	s	N	20W	150	325	300			_	30	250	100	20		-		_		-	-		
2N5660	SP	s	N	2011	200	250	200				40	150		- 20	_			20		 	1		
2N5661	SP	S	N		200	400	300				40	150	_					20					
2N5662	SP	s	N		200	250	200				40	150	500					20		<u> </u>			
2N5663	SP	S	N		200	400	300				40	150	500					20	-	-	1		
2N5682	AP	S	N	10W	200	120	120				40	150	250	40				30		 	-		
2N5687	AP	S	N	5W	200	40	20	<u> </u>			15	130	50	40				30			-		
	49	-	-	10W							_									-			
2N5688 2N5689	AP	S	N	25W		40	20				15		50			⊢						\vdash	
	AP	-	N			60	40				15		001								-		
2N5690	AP	S	N	50W		50	30				10		100			-					-	-	
2N5697	AP	S	N	3.5W		40	18				30		40										
2N5698	AP	S	N	5W		40	18				30		40			-							
2N5699	AP	S	N	10W		40	18		ļ		15		50			<u> </u>							_
2N5700	AP	S	N	35W		40	18				30		50			ļ					ļ.,		
2N5701	AP	S	N	35W		40	18				30		50										
2N5703	AP	S	N	750		40	18				15		50										
2N5704	AP	S	N	25W		40	18				15		50										
2N5705	AP	S	N	44W	<u></u>	36	18				15		100										
2N5710	AP	S	Ν	3.5W		40	20				20		10										
2N5712	AP	S	N	25W		60	40				10		100										
2N5713	Α	S	N	45W		60	40				10		10										
2N5764	АН	S	Ν	10W		55	25				20		100										
2N5765	АН	S	N	19W		55	25				20		100										
2N5766	АН	S	N	5W		55	25				20		50								<u> </u>		
2N5767	АН	S	N	10W		55	25				20		100								ļ		
2N5768	АН	S	N	20W		55	25				20		100										
2N5782	AP	S	Р	10W	200	65	65				4		3. 2A	25				8					
2N5783	AP	S	Ρ	10W	200	45	45				4		3. 2A	25				8					
2N5785	AP	S	N	10W	200	65	65				- 4		3. 2A	25				2. 5					
2N5786	AP	S	N	10W	200	45	45				4		3. 2A	25				2.5					
2N5810	Α	S	N	500	135	35	25	750	0.1	25	60	200	2					100				18	GE
N5811	Α	S	N	500	135	35	25	750	0.1	25	60	200	2					100				18	GE
2N5812	Α	S	N	500	135	35	25	750	0.1	25	150	500	2					135				18	GE
2N5813	Α	S	Р	500	135	35	25	750	0.1	25	150	500	2					135				18	GE
2N5814	Α	S	N	500	135	50	40	750	0.1	25	60	100	2					100				18	GE
2N5815	Α	S	Р	500	135	50	40	750	0.1	25	60	120	2					100				18	GE
2N5816	Α	S	N	500	135	50	40	750	0.1	25	100	200	2					120				18	GE
2N5817	Α	S	Р	500	135	50	40	750	0.1	25	100	200	2					120				18	GE
2N5818	Α	S	N	500	135	50	40	750	0.1	25	150	300	_					135				18	GE
2N5819	Α	S	Р	500	135	50	40	750	0.1	25	150	300						135				18	GE
2N5820	A	S	N	500	135	70	60	750	0.1	25	60	120			_	 		100		_	+	18	GE
2N5821	Α	S	P	500	135	70	60	750	0.1	25	60	120		\vdash		-		100		† •	+	18	GE
N5822	A	s	N	500	135	70.	60	750	0.1	25	100	200						120			1	18	GE
N5823	A	S	P	500	135	70	60	750	0.1	25	100	200		\vdash		-	_	120		1	+	18	GE
N5824	A	S	N	360	125	50	40	100	0.05	40	60	120	_	60		+		90		-	65	18	· GE
N5825	A	S	N	360	125	50	40	100	0.05	40	100	200	_	100	-	+		90			65	18	GE
N5826	Α Α	S	N	360	125	50	40	100	0.05	40	150	300		150		+-		90			65	18	GE
N5827	A	S	N	360	125	50	40	100	0.05	40	250	500	-	250		1		90		\vdash	65	18	GE
2N5827 2N5828				360	125	50	40	100		40	400		-		_	-	-	90		-	65	18	GE
M/OCKI	Α	S	N	200	125	15	10	100	0.05	40	25	800	10	400	_	+	-	90		-	05	10	GE

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5646									
2N5650				10					
2N5651		_							
2N5652								-	
2N5655								-	
2N5656									
2N5660				- ·			· ·	-	_
2N5661									
2N5662									_
2N5663									
2N5682									
2N5687									
2N5688									
2N5689									
2N5690								-	
2N5697									
2N5698				L					
2N5699								-	<u> </u>
2N5700								ļ .	
2N5701									-
2N5703									
2N5704									
2N5705					_			ļ <u>.</u>	
2N5710									
2N5712									
2N5713									
2N5764									
2N5765						*			
2N5766									
2N5767									
2N5768									
2N5782									
2N5783							*		
2N5785									
2N5786									
2N5810		2SC97A	2SC480			2SC1150			
2N5811		2SC97A	2SC480			2SC1150			
2N5812		2SC97A	2SC480		100	2SC1150			1911
2N5813	2SA682	2SA717			1200	2SA580			
2N5814		2SC97A	2SC 480			2SC1150			
2N5815	2SA682	2SA717				2SA580			
2N5816		2SC97A	2SC 480			2SC1150			
2N5817	2SA682	2SA717				2SA580			
2N5818		2SC97A	2SC480			2SC1150			-
2N5819	2SA682	2SA717	_			2SA580			
2N5820		2SC97A	2SC480			2SC1150			
2N5821	2SA682	2SA717				2SA580			
2N5822	-	2SC97A	2SC480			2SC1150			
2N5823	2SA682	2SA717				2SA580			
2N5824	2SC1382	2SC1008	2SC13 4 5	2SC1313				100	n years
2N5825	2SC1382	2SC1008	2SC1345	2SC1313				¥	
2N5826	2SC1382	2SC1008	2SC1345	2SC1313				34	
2N5827	2SC1382	2SC1008	2SC1345	2SC1313		==1			
2N5828	2SC1382	2SC1008	2SC1345	2SC1313					
2N5835	- 2331302	2001000	1						

		A	1		IAXIML	M I	RATING	S						LECTRIC	AL CHAP	RACTER	ISTICS						
TYPE	USE	MATER	POLALITY	Pc 25*C (mW)	Tj (°C)	Vcs (V)	Vcto (V)	lc (mA)	 (μ A)	Vos(V) min.	max.	Ic (mA	hfe	hie (Q)	hre (×10)	hoe (ఆరె)	f t *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOT
2N5841	SH	S	N	350	200	20	10			1	25		25		-			2000		<u> </u>	_		_
2N5842	SH	S	N	350	200	20	10	T		1	25	_	25		1			2000			-		
2N5851	S	S	N	500	200	30	15				40	_	10	1	1	1		800		<u> </u>			
2N5852	S	S	N	500	200		_	_			40	_	10					1000					_
2N5855	A	S	Р	750	135		+			-	-	300	-	1		1		100					_
2N5856	A	S	N	750	135	60		1		1	50	_		-		_		100					
2N5857	A	S	Р	750	135	80	80			1	50		_					100			_		-
2N5858	A	s	N	750	135	80	80			1	50	300	150		_			100					
2N5961	АН	S	N	625	135	60	60				150	700		\vdash		-		150					
2N5998	$\overline{}$	S	N	360	150	35	25	500	0.03	25	150	300	10				_	250	10KHZ 0.5			98	GE
2N5999		S	Р	360	150	35	25	500	0.03	25	150	_		-				250	0.5 IOKHZ 0.5			98	GE
2N6000	Α	S	N	360	150	35	25	500	0.2nA	_	100	300	10					250	0.5 10KHZ		53	18	GE
2N6001	Α	S	Р	360	150	35	25	500	0.2nA		100	300		-				250	3 10KHZ		80	18	GE
2N6002	Α	S	N	360	150	35	25	500	0.2nA	_	250	500	10	\vdash				250	10KHZ		_		
2N6003	A	s	Р	360	150	35	25	500	0.2nA	_	250			+-		\vdash		250	10KHZ		55	18	GE
2N6004	Ā	S	N	360	150	50	40	500	0.2nA	25	100	300	10	-	1			250	IOKHZ		115	18	GE
2N6005	A	S	P	360	150	50	40		0.2nA	25	100	300	10	-					10KHZ		62	18	GE
2N6006	A	S	N	360	150	50	40		0. 2nA	25	250	500	10	-				250	IOKHZ		70	18	GE
2N6007	A	S	P	360	150	50	40		0. 2nA	25	250		10	-	-			250	3		62	18	GE
2N6008	A	S	N	360	150	35	25	500	0. 2nA 0. 03	25	250	500	_	-		\square		250	10KHZ 3		100	18	GE
2N6009	A	S	P	360	150	35	25	500			-		10	-				250	0.5			98	GE
2N6010	A	S	N	625					0. 03	25	250	500	10					250	10KHZ 0.5			98	GE
2N6011	A	S	P	500	150 150	50	40	800	0.01	25	100		10					200	10KHZ 5			18	GE
2N6012	A	_	N	625		50	40	800	0.01	25			10					200	10KHZ 3			18	GE
2N6012	A	S S	P	500	150 150	50	40	800	0.01	25	-		10					200	IOKHZ 3			18	. GE
2N6014	$\overline{}$	5	_	625	_	50	40	800	0.01		250	500	10					200	IOKHZ 2			18	GE
	\rightarrow	_	N P		150	70	60	800	0.01	25	100	300	10					200	IOKHZ S			18	GE-
2N6015 2N6016	_	S	_	500	150	70	60	800	0.01	25	100	300	10					200	10KHZ 3			18	GE
	\rightarrow		N	675	150	70	60	800	0.01		250	500	10					200	3 10KHZ - 3			18	GE
2N6017			Р	500	150	70	60	800	0.01	-	250	500	10					200	IOKHZ 2			18	GE
2N6076	$\overline{}$		Р	360	150	25	25	100	0. 1	25		500	10	100				200				98	GE
2N6218		_	N	500	150	300	300	50	0.5	250	10	_	2	20				50				18	GE
2N6219		_	N	500	150	250	250	50	0.5	200	10		2	20				50				18	GE
2N6220				500	150	200	200	50	0. 5	150	10	_	2	20				50		ĺ		18	GE
2N6221	\rightarrow	_		500	150	150	150	50	0.5	100	10		2	20				50				18	GE
2N6222		_	N	360	150	60	60	$\overline{}$	0. 05	60	_	200		300								18	GE
2N6223			P	360	150	60	60	100	0.05	60		200	_	300								18	GE
2N6224		_	Ν	360	150	60	60	100	0. 05	60		_	2	300								18	GE
2N6225	_	s	Р	360	150	60	60	100	0. 05	60	150	300	2	300]	\Box			T			18	GE
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		\exists	7			\neg	T	\neg		\dashv	\dashv	\dashv	\dashv	\neg	\dashv	-	\dashv	-+	\dashv	\dashv	\dashv	-	
	\dashv	+	+			\neg	\dashv	-+		\dashv	-+	-+	\dashv	+	\dashv	-+	\dashv	-+	-+	+	\dashv	-+	
	_	+	+			\rightarrow	\dashv	\dashv	-	\dashv	\dashv	\dashv	\dashv	-		+	\dashv	+	+	\rightarrow	\dashv	-	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N584 i	-			·					
2N5842									
2N5851						_			- 4
2N5852					_				-
2N5855					-				-
2N5856 2N5857									- 1
2N5858							1		- 7
2N5961		-							
2N5998	2SC1382		2SC1213	2SC1211	2SC1318				
2N5999					2SA720				
2N6000	2SC1382		2SC1213	2501211	2SC1318				
2N6001					2SA720				_
2N6002	2SC1382		2SC[2]3	2SC1211	2SC1318			-	-
2N6003			2001212	0001011	2SA720			-	
2N6004	2SC1382		2SC1213	2SC1211	2SC1318 2SA720				
2N6005	0001200		2001213	2SC1211	2SA720 2SC1318				
2N6006	2SC1382	-	2SC1213	2001211	2SA720				
2N6007 2N6008	2SC1382	-	2SC1213	2SC1211	2SC1318			,	
2N6008 2N6009	2501382	-	2301213	2301211	2SA720	_			
2N6010	2SC495	2SC959			2SC1407				1
2N6011	2SA682	2SA717				2SA580	2SA706		100
2N6012	2SC495	2SC959			2SC1407				
2N6013	2SA682	2SA717				2SA580	2SA706		100
2N6014	2SC495	2SC959			2SC1407			1	21 10
2N6015	2SA682	2SA717				2SA580	2SA706		
2N6016	2SC459	2SC959	ly inches		2SC1407			1	
2N6017	2SA682	2SA717				2SA580	2SA706		1
2N6076		2SA710	2SA741			2SA559		2SA659	1
2N6218	2SC505	2SC1103A							+
2N6219	2SC505	2SC1103A		-	-		2SC1127		1
2N6220	2SC505	2SC1103A			-		2501127	-	1 11
2N6221	2SC505	2SC1103A	2SC154C	2SC1211			2301127	2SC933	1
2N6222	250734		2501540	2SA697	2SA546			200000	-
2N6223	2SA561 2SC734		2SC154C	2SC1211	23A340			2SC933	
2N6224 2N6225	2SA561		2301340	2SA697	2SA546				
ENOZZS	20/1301								
		-							
			17)						
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PHILIPS

100		الا	>	MA	XIMUM	RA	INGS						ELE	CTRICAL	CHARA	CTERI	STICS				, _	OUT: INC	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vae	V OEO	lc	lα	0		hfe		hfe	hie	hre	hoe	fr *fae **fao	NF	Cob	Coxrbb'	OUTLINE TO:	NOTE
		¥		(mW)	(7)	(V)	(V)	(mA)	(µ A)	Voa(V)	min.	max.	Ic(mA)		(Ω)	(×10)	(µ0)	(MHz)	(dB)	(pF)	(ps)	, v	
AC 125	LF	G	Р	500	90	32	12	100	10	10	100		2	125	1.7K	6.5	80 .	1.7	i KHZ			1	
AC126	LF	G	Р	500	90	32	12	100	10	10	140		2	185	2.4K	8	100	2.3	I KHZ			1	
AC 127	LF	G	N	340	100	32	16	500	15	10	100		20					2.5	I KHZ			- 1	AC127/0
AC 1 28	LF	G	Р	1 W	100	32	16	I A	10	10	55	175	50					1.5	1 1 1 1 1 1			1	AC128/0
AC132	LF	G	Р	500	90	32	12	200	10	0.5	135		20					2	I KHZ		<u> </u>		AC132/0
AC 187	LF	G	N	I W	90	25	15	2 A	15	25	100	500	- 1					5			<u> </u>	1	AC187/0
ACI88	LF	G	Р	I W	90	25	15	2 A	20	25	100	500	- 1					1.5	100 MHZ		-		AC188/0
AF 1 24	HF	G	P	60	75	32	15	10	90	6	150		1					75	8			72	
AF 125	HF	G	Р	60	75	32	15	10	1.2	6	150							75	100 MHZ 9.5 10,7 MHZ		-	72	
AFI26	HF	G	Р	60	75	32	15	10	1.2	6	150		1					75	3 I MHZ		-	72	
AF 127	HF	G	P	60	75	32	15	10	1.2	6	150		-					75	1.5 800 MHZ		3	72	
AF139	HF	G	P	60	90	20	15	10	0.5	20								550 650	7 200 MHZ		13	72	
AF239	HF	G	P P	60	90	20	15	15	0.5	20								780	3 800 MHZ	_	-	72	
AF239S	HF	G		60	90	20	15	15					L					780	5 900 MHZ		\vdash	P-10	
AF 267	HF	G	P	60	90	20	15	10			45				750	-	C.F.		6		-	5	
ASY26	SW	G	Р	150	85	30	15	200	7	30	45		10	50 90	750	5	65	8	,			5	
ASY27	SW	G	Р	150	85	25	15	200	7	25	80		10	-	1.4K	7.5	100	14			-	5	
ASY28	SW	G	N	150	85	30	15	200	7	30	43		10	50	750	3.5	70	20		_	+	5	
ASY29	-	G	N	150	85,	25	15	200	3	25	113			90	1.4K	5	/0	4			+	5	
ASY73	SW	G	N	140	75	30	15	400	3	5	20		200					6			+	5	_
ASY74	SW	G	N	140	75	30	15	400		5	35		200					<u> </u>			+	5	
ASY75 ASY76	SW	G	N P	140	75	30 40	15 32	400	3 4.5	5 10	50 20		600					0.9	I KHZ		1	5	
	SW	G	-	500	85		60	IA	4.5		20		600					0.9	I KHZ I S			5	
ASY77		G	P P	500	85	60	_		4.5	10	40		600					0.9	1 KHZ 1 S		-	5	
ASY80	S₩	G	P	500 30 W	85 90	100	40 60	I A	3 mA	100	20	55	1 A		-			0.9	1.5		1	3	
ASZ15 ASZ16	P	G	P	30 W	90	60	32	8 A	3 mA	60	45	130	1A					0.25			 	3	
ASZ16	P	G	P	30W	90	60	32	8A	3 mA	60	25	75	1A					0.22			_	3	-
ASZ18	P	G	P	30 W	90	100	32	8A	3 mA	100	30	110	IA			-		0.22			1	3	
ASZ21	SW	G	P	120	85	20	15	50	0 11171		30	110	10			Ė		300			_	18	
AFYI6	HF	ŭ	<u> </u>	720	"			30			-		10									·•	
AFY40	HF	\vdash	\vdash														_						
AFY12	HF		-		_	_																	
BC 107	LF	S	N	300	175	50	45	200	15	20				330	4.5K	2	30	300	IOKHZ 1,4			18	
BC108	LF	S	N	300	175	30	20	200	15	20				330	4.5K	2	30	300	10KHZ 1.4			18	
BC 09	LF	s	N	300	175	30	20	200	15	20				330	4.5K	2	30	300	10KHZ			18	
BC 46	LF	S	N	50	125	20	20	50			80	55 0		220	30 K	25	20		1.4		T	P-I	
BC 147	LF	s	N	300	125		45	200	5	20	Ē			125				300	IOKHZ I.4			P-2	
BC 48	LF	S	N	300	125	ļ	20	200	5	20			<u> </u>	125				300	10KHZ 1.4			P-2	
BC 149	LF	S	N	300	125		20	200	5	20				240				300	10KHZ 1.4			P-2	
BC157	LF	S	Р	300	125		45	200	l n A	20				75				150	10KHZ 1.2			P-2	
BC158	LF	S	Р	300	125		20	200	l n A	20				75				150	10KHZ 1.2			P-2	
BC159	LF	S	Р	300	125		20	200	l n A	20	T	T		125		П		150	10KHZ .			P-2	
BC177	LF.	-	Р	300	175		45	200	InA	20				75				150	10KHZ			18	
BC178	LF	S	Р	300	175		25	200	InA	20				75				150	10KHZ 1.2			81	
BC179	LF	s	P	300	175		20	200	InA	20	. 1			75				150	10KHZ 1.2			18	
BC200	LF	S	P	50	125	20	20	50	100	20	50	400	0.2	75	12K	13	13	90	10KHZ 1.5			P-I	
BC237	LF	S	N	300	125		45	200	5	20				125				300				P-3	
BC238	LF	s	N	300	125		20	200	5	20				125				300				P-3	
BC239	LF	s	N	300	125		20	200	5	20				240				300				P-3	
BC307	LF	s	Р	300	125		45	200	LnA	20				75				150	1 KHZ 1.2			P-3	
B:C308	LF	S	P	300	125		25	200	InA	20				75				150	I KHZ			P-3	
BC309	LF	s	Р	300	125		20	200	i n A	20				125				150	KHZ			P-3	
BC327	LF	S	Р	6 2 5	150		45	ΙA	0.1	20	100	600	100		1			100				P-4	
BC328	LF	S	Р	6 2 5	150		25	1 A	0.1	20	100	600	100					100				P-4	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
AC 25		2SB 108							
AC 26		2SB 108							
AC 27							2SD 127		
AC 28					2SB 481			2SB374	
AC 32		2 SB 108							
AC187		2SD 78	2SD 121H						_
AC188		2 SB 504							_
AFI24					2SA 100	2SA 273			
AF 25					2SA 100	2SA 273			
AF126					2SA 100	2SA 273			
AF127					2SA 100	2SA 273			
AF139							2SA 456		-
AF239							2SA 456		
AF239S							2SA 456		
AF267							2SA 456		
ASY26		2SA 759	2SA 673 A	2SA 696					
ASY27		2SA 759	2SA 673A	2 S A 696					
ASY28		2SC 1216		2SC 619					
A S Y 29		2SC 1216		2SC 619					
ASY73	2SC 735			2SC 1210		2SC 1246		,	
ASY74	2SC 735			2SC 1210		2SC 246			
ASY75	2 SC 735			2SC 1210		2SC 1246			
ASY76				2SB 458A					
ASY77				2SB 458A					
ASY80				2SB 458A					
ASZ15	2SB 531						2SB 518		
ASZ16	2 SB 531				,		2SB 518		- 100
ASZ17	2SB 531						2SB 518		10.00
ASZ18	2SB 531						2SB 518		
ASZ21	2SA 538	2SA 406					·		
AFY16									317
AFY40									
AFY12									
BC 107	2SC 734			2SC 620		2 S C 725	2SC 1364		
BC 108	2SC 734			2SC 620		2SC 725	2SC 1364		100
BC 1 09	2SC 734			2SC 620		2SC 725	2SC 1364		1/4123
BC 146	2SD 44		2SD 77		2SC 828				
BC 147	2SC 734			2SC 620			2SC 1364		
BC 48	2SC 734			2SC 620			2SC 1364		
BC 149	2SC 734			2SC 620			2SC 364		1000
BC157		2SA 718		2SA 696					
BC158		2SA 718		2SA 696					CALLS I
BC159		2SA 718		2SA 696					
BC177		2SA 718		2SA 696			4-24.	-	
BC178		2SA 718		2SA 696					
BC179	224 125	2SA 718		2SA 696	004564	OCA EEC	204 677	20 A 600	
BC200	2SA 495	2SA 542		200 020	2SA 564 A	2SA 556	2SA 677	2SA 609	-
BC237	2SC 734			2 SC 620		2SC 725	2SC 1364 2SC 1364		
BC238	2SC 734	_		2SC 620		2SC 725			
BC239	2SC 734	004 716	_	2SC 620	_	2SC 725	2SC 1364		
BC307		2SA 718		2SA 696				AND DESCRIPTIONS	-
BC308		2SA 718		2SA 696	1.4				
BC309	001-11-	2SA 718	004 507	2SA 696	204 535		The second second		
BC327	2SA 513	2SA 606	2SA 537		2SA 546				-
BC328	2SA 513	2SA 606	2SA 537		2SA 546				

A TOP OF		بر	>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	_ CHAR	ACTERI	STICS						
TYPE	USE	MATERIA	POLALITY	Pc	Tj	Voa	V _{OE0}	Ic	le	B0		hfE		hfe	hie	hre	hoe	f T *fae	NF	Cob	CoXrbb [*]	OUTLINE	NOTE
		M	조	25℃ (m₩)	(7)	(V)	(∀)	(mA)	(µ A)	V08(V)	m in .	max.	Ic(mA)		(Ω)	(×10°)	(μδ)	*fae **fap (MHz)	(dB)	(pF)	(ps)	TO-	
BC337	LF	S	N	625	150		45	1A	0.1	20	100	600	100					200				P-4	
BC338	LF	S	N		150		25	1A	0.1	20	100	600	100					200				P-4	
BC547	LF	S	N	30	150		45	200	5	20	T-			125				300	10KHZ 1.4			P-4	
BC548	LF	S	N	300	150		20	200	5	20				125				300	I DKHZ			P-4	
BC549	LF	S	N	300	150		20	200	.5	20				240		—		300	10KHZ			P-4	
BC557	LF	S	Р	300	150		45	200	InA	20	-			75				150	IOKHZ 1.2		_	P-4	
BC558	LF	S	Р	300	150		20	200	InA	20				75				150	10KHZ 1.2			P-4	
BC559	LF	S	P	300	150		20	200	I,nA	20				125				150	1.2			P-4	
BCW46	LF	S	N	200	150	80	60	200	10	80			_	125				300	I XHZ			P-5	
BCW47	LF	S	N	200	150	50	45	200	10	50				125		 		300	1 KHZ			P-5	
BCW48	LF	S	N	200	150	30	20	200	10	30				125			-	300	I KHZ			P-5	
BCW49	LF	S	N	200	150	30	20	200	10	30		-		240				300	I KHZ			P-5	
BCW56	LF	-	P	200	150	80	60	200	10	80				125		+		150	1 KHZ 1.2			P-5	
BCW57	LF	S	P	200	150	50	45	200	10	50		-		125		-		150	I KHZ			P-5	
BCW58	LF	S	P	200	150	30	20	200	10	30			-	125				150	1.2 1 KHZ 1.2	_	-	P-5	
BCW59	LF	S	Р	200	150	30	20	200	10	30	\vdash			125				150	1 KHZ 1.2		\vdash	P5	
BCY10	LF	S	P	415	150	32	32	250	20 n A	6	24		30	40	-	-		_	7		-	P-6	
	LF	S	P	415	150	60	60	250	20 n A	6	24		30	40		-	-	1.5	7			P-6	
BCY11	LF	S	P	415	150	-	32	250		_	40	-	30					2	7			P-6	
	LF	S	P	250		32	<u> </u>		20 n A I n A	6	-	35	20	40	ļ	-		-	1			5	
BCY30	-	_	P	_	150	64	50	100	_	-	10	-	20	25				1.2			_		
BCY31	LF	S	_	250	150	64	50	100	I nA	6	15	60		35		-		1.7			-	5	
BCY32	LF	S	Р	250	150	64	50	100	InA	6	20	70	20	55_				2.5				5	
BCY33	LF	S	P	250	150	32	25	100	I nA	6	10	35	20	25				1.5				5	
.BCY34	LF	S	Р	250	150	32	25	100	I nA	6	15	60	20	35				2.4				5	
BCY38	LF	S	Р	410	150	32	24	500	InA	6	10	30	150					1.5				5	
BCY39	LF	S	Р	410	150	64	60	500	1 nA	6	10	50	150			-		1.5				5	
BCY40	LF	S	Р	410	150	32	24	500	InA	6	15	120	150					2.5				5 -	
BCY54	LF	S	Р	410	150	50	50	500	l n A	6	12	70	150					2				5	51141
BCY55		Ļ	_	_															10KHZ				DUAL
BCY56	LF	S	N	300	175	45	45	100	0.1	20	100	450	2		3.5K	_	_	85	10KHZ 1.5		_	18	
BCY57	LF	S	N	300	175	25	20	100	0.1	20	200	800	2	500	7.5	3.5	35	100	10KHZ 1.5			18	
BCY58	LF	S	N	I W	200	32	-	200			120	630	2		ļ	ļ		280	1 KHZ 2 1 KHZ			18	
BCY59	LF	S	N	1 W	200	45		200			120	630				<u> </u>		280	2 IOKHZ			18	
BCY70	LF	S	Р	350	200	50	40	200	10 n A	40	50		10					250	2 IOKHZ			18	
BCY71	LF	S	P	350	200	45	45	200	50 n A	40	100		10	100	2 K	20	10	200	2			18	
BCY72	LF	S	Р	350	200	25	25	200	50 n A	20	50		10					200	10KHZ 2			18	Dille
BCY87																							DUAL
BCY88	-		<u></u>	ļ												-		\vdash					DUAL
BCY89		-	Ļ	05.5	15.0	25	05				\vdash			00				 				<u> </u>	DUAL
BCZ10	LF	S	Р	250	150	25	25	50	l n A	10	Н			20				\vdash				P-6	
BCZII	LF	S	Р	250	150	25	25	50	inA	10	\vdash			35								P-6	
BCZ12	LF	S	Р	250	150	60	60	50	10n A	10				15					-			P-6	
BD I IS	P	S	N	6 W	105	245	180	200	550	200	60		50					145				39_	
BD 31	P	S	N	HW	125	70	45	3 A	5	50	20		2 A					60				126	
BD132	P	S	Р	HW	125	45	45	3 A	5	40	20		2 A					60				126	
BD133	Р	S	N	HW	125	90	60	3 A	5	60	20		2 A					60				126	
BD135	P	S	N	8 W	150	45	45	i A	0.1	22	40	250	150			<u> </u>		250				126	
BD136	Р	S	Р	8 W	150	45	45	1 A	0.1	30	40	250	150			<u> </u>		75				126	
BD137	P	S	N	8 W	150	60	60	ΙA	0.1	30	40	160	150					250				126	
BD138	Р	S	Р	8 W	150	60	60	I A	0.1	30	40	160	150					75				126	
BD139	Р	S	N	. 8 W	150	100	80	ΙA	0.1	30	40	160	150					250				126	
BD140	Р	S	Р	8 W	150	100	80	ΙA	0.1	30	40	160	150					75				126	
BD181	Р	S	N	117W	200	45	55	10A	2	45	20	70	3 A									3	
BD182	Р	S	N	117W	200	60	70	15 A	5	60	20	70	4 A									3	-
BD183	Р	S	N	117W	200	80	8 5	15A	5	80	20	70	3 A										

	п	,			,			,	
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC337	2 SC 495				2SC 407				
BC338	2 S C 495				2SC 407				
BC547	2SC 734		-	2SC 620	200.101	2 SC 725	2SC 1364		-
BC548	2SC 734			2SC 620		2SC 725	2SC 1364		
BC549	2SC 734			2SC 620		2SC 725	2 SC 1364		
BC557	2SA 561	2SA 718		200 020	*	2SA 553	230 1304		_
BC558	2SA561	2SA 718			-	2SA 553	-		
BC559	2SA 561	2SA.718			-	2SA 553			
BCW46	2SC 108 A	23A,710			200 562 4	2SC 230	_		
BCW47	2SC 495	2SC 815	-	2SC 773	2 S C 563 A	230 230		000400	
BCW47	2SC 356	2SC 1216		2SC 619	2 S C 456	2001070		2SC423	-
BCW49	2SC 356	2SC 1216 2SC 1216		2SC 619		2SC 1372	-		-
	230330	2SA 539		230 013		2SC 1372			-
BCW56						2SA 555		2SA 532	
BCW57		2SA 539		2SA 696		2SA 555		2SA 532	10
BCW58	-	2 S A 539		2SA 696		2SA 555		2SA 532	
BCW59		2SA 539		2SA 696		2SA 555		2SA 532	77
BCY10	2SB 461								
BCYII		2SB 108A							
BCY12	2SB 461								
BCY30				2SB 455					
BCY31				2SB 455					
BCY32				2SB 455					1
BCY33				2SB 455					
BCY34				2SB 455					
BCY38		2SB 105							
BCY39		2SB 108A							- 4
BCY40		2SB 105			_	2SB 7A			- 7
BCY54		2SB 108A	_						
BCY55									
BCY56	2SC 1380		2SC 1345	2SC 3 3					
BCY57						2SC 1264		7	
BCY58	2SC 486		2SC 708			2SC 971			
BCY59	2SC 486		2SC 708			2SC 971			
BCY70	2SA 561	2SA 718							
BCY71	2SA 561	2SA 718							
BCY72	2SA 561	2SA 718							
BCY87								-	
BCY88									
BCY89									
BCZ10					2SB 278				
_11					2SB 278		_	-	
12				-	2SB 281				
BD 1 15			2SC 1059		230 201			-	
BD 131	2SC 1237	2SC 1306	200 1000		-	_		-	
BD 132	200 1231	230 1330		2SB 529				2SB 511	
BD132	2SC 1237	2SC 799		230 323				238 511	100
BD133	230 1231	230 /33		200 1155			8.0		
BD135		2SB 243		2SC 155	250 402			000 :71	
BD136		230 243		200 1155	2SB 493			2SB 474	
BD137	-	2 SB 245		2SC 1155		000 456		No. of Case of the	
		238243		000::57		2 S B 456		11.00	
BD139				2SC 1157		000 :			
BD140	260	200 :5:				2 SB 456			
BD181	2SD	2SD 5				2SD 172	AUDITOR		
BD182	2SD 111	2SD 151	2SD 341			2SD 250	2 \$D 340		
BD183	2SD	2SD 151	2SD 341			2 S D 250	2SD 340		

PHILIPS

		يا	>	MA	XIMUM	RAT	INGS		-				ELE	CTRICA	L CHAR	ACTERI	STICS					AUT. 135	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vos	Voso	lc	la	80		hre		hfe	hie	hre	hoe	f1 *fae **fa0	NF	Cob	Coxrbb	OUTLINE TO-	NOTE
		¥	8	(m₩)	(7)	(٧)	(V)	(mA)	(µA)	A08(A)	min.	max.	Ic(mA)		(Q)	(×10)	(µō)	(MHz)	(dB)	(pF)	(ps)		
BD201	Р	S	N	60 W	150	60	45	8A	Ī	40	30		3 A					3				P7	
BD202	P	S	P	60 W	150	60	45	8 A	- 1	40	30		3 A					3			<u></u>	P-7	
BD203	Р	S	N	60 W	150	60	60	8A	J	40	30		2 A					3				P-7	
BD204	P	S	P	60W	150	60	60	8 A	1	40	30		2 A					3				P-7	
BD226	Р	S	N	12.5W	150	45	45	1.5A	0.1	30	25		ΙA					125				126	
BD227	P	S	Р	125W	150	45	45	1.5A	0.1	30	25		ΙA					50				126	
BD228	P	S	N	12.5W	150	60	60	1.5A	0.1	30	25		I A					125				126	
BD229	P	S	P	12.5W	150	60	60	1.5A	0.1	30	25		I A					50		<u> </u>		126	
BD230	Р	S	N	12.5W	150	100	80	1.5A	0.1	30	25		1 A					125			<u> </u>	126	
BD231	Р	S	P	12.5W	150	100	80	1.5A	0.1	30	25		1 A					50				126	
BD232	P	S	N	7 W	125		300	250	11.3		20		150					20				126	
BD233	P	S	N	25 W	150	45	45	2 A	0.1	45	20		ΙA					3				126	
BD234	P	S	P	25W	150	45	45	2 A	0.1	45	20		1 A					3				126	
BD235	Р	S	N	25 W	150	60	60	2 A	0.1	60	20		۱A			T		3				126	
BD236	P	S	P	25W	150	60	60	2A	0.1	60	20		, IA					3				126	
BD237	Р	S	N	25W	150	100	80	2 A	0.1	100	20		۱A			Τ		3				126	
BD238	P	S	P	25W	150	100	80	2 A	0.1	100	20		IA					3				126	
BD433	P	S	N	36 W	150	22	22	4 A	0.1	22	50		2 A					3 .				126	
BD434	P	s	P	36 W	150	22	22	4 A	0.1	22	50		2 A					3				126	
BD435	P	S	N	36 W	150	32	32	4 A	0.1	32	50	-	2 A					3				126	
BD436	P	S	P	36 W	150	32	32	4 A	0.1	32	50		2 A			+		3				126	
BD437	P	S	N	36 W	150	45	45	4 A	0.1	45	40		2 A	_	_	\vdash		3				126	
BD438	P	S	P	36 W	150	45	45	4 A	0.1	45	40	 	2 A					3				126	_
BDY20	P	S	N	115W	200	100	60	15A	3	100	20	70	4 A								<u> </u>	3	_
BDY38	P	S	N	115W	200	50	40	6A	3	50	30	-	2 A			+		1			-	3	
_	P	+	-	15W	175	120	60	5 A	10	100	45		500			+		100				3	
BDY60	P	S	N	15W	175	100	60	5 A	10	80	45		500			\vdash		100			+	3	
BDY61	P	-	N	40W	175	120	100	10A	10	00	30	120	5 A			+		70				3	
BDY90	-	S	N	40W		100	80	_			30	120	5 A			-		70				3	
BDY91	P	S.	+			80	60m	10A			30	120	5 A			+		70				3	
BDY92	P	S	N	40 W		_		10A		├	15	_	IA			+		8		-		3	
BDY93	Р	S	N	_		750	350				_	60	IA			+		8				3	- 0
BDY94	P	S	N	30 W		750	300	3 A		-	25	80	IA			+		8			-	3	
BDY95	P	S	N	30 W		600	250	3 A			25	80	2 A		-			_			<u> </u>	3	
BDY96	P	S	N	40 W		750	350	10A		-	15	60	_			-	-	10			-	3	
BDY97	Р	S	N	40 W		750	300	10 A		ļ	25	80	2 A			+		10					
BDY98	Р	S	N	40W		600	250	10A			25	80	2 A		-	-	_	10	100 MHZ			3	
BF115	HF	S	N	145	175	50	30	30		-	45	165	1		-	-	-	230	35 MHZ			72 72	
BF167	HF	S	N	130	175	40	30	25				<u> </u>			-	-		3 50	3	-			
BF173	HF	S	N	260	175	40	25	25		<u> </u>	L.			_		-	<u> </u>	550			-	72	
BF177	HF	S	N	600	200	100	60	50	L	<u> </u>	20	<u> </u>	15	<u> </u>	<u> </u>	+	_	120				39	
BF178	HF	S	N	600	200	185	115	50		_	20	-	30		-	-	<u> </u>	120		-	-	39	
BF 179	HF	S	N	600	200	250	115	50	_		20		20	L		<u> </u>		120	2001#47		2.5	39	
BF180	HF	S	N	150	175	30	20	20						L		1		675	200 MHZ 2.5		<u> </u>	72	
BF181	HF	S	N	150	175	30	20	20		<u> </u>	_					_	<u> </u>	600	900 MHZ .6.8	ļ	_	72	
BF182	HF	S	-	150	175	25	20	15			L_	_		<u> </u>	₩	-		650	800 MHZ 7.4		<u> </u>	72	
BF183	HF	S	N	150	175	25	20	15		٠.				_	1	-		800				72	
BFI84	HF	+	N	145	175	30	20	30			115	ļ	1			1		300	100 862		_	72	
BF 185	HF	S	N	145	175	30	20	30			67		- 1	<u> </u>		_		220	100 MHZ	<u> </u>		72	
BF 194	HF	+-	N	250	125	30	20	30	<u> </u>		115		- 1					260	J MH Z		_	P-2	
BF 195	HF	S	N	250	125	30	20	30			67		- 1					200	100 MHZ 4		_	P-2	
BF196	HF	S	N	250	125	40	30	25					- 22					400	35 MHZ 3			P-2	
BF 197	HF	S	N	250	125	40	25	25					L				L	550				P-2	
BF198	HF	S	N	500	150	40	30	25			L							400	35 M HZ 3			P-4	
BF 199	HF	S	N	500	150	40	25	25										550				P-4	
BF 200	HF	S	Р	150	175	30	20	20										650	200 MHZ 2.7			72	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BD201	2SC 1080	2SD 217					2SD 338		-
BD202	2SB 531						2SB 518		67
BD203		2SD217					2SD 338		
BD204	2 SB 53						2SB 518		
BD226		2SC 1425							
BD227					2 SB 126	2SB 445			
BD228	2SC 790		2SC 106		2SC 1398				
BD229						2SB 446			
BD230					2SC 697	•	2SC756-2		
BD231		2 S B 24 i A							
BD232				2SC 1088					
BD233		2SD 288			2SD 317		2 SD 29 I	2SD330	
BD234		2SB 250A	2SB 471			2SB 151		2SB 216	
BD235	2SC 793	2SD 335			2SD 317		2SD 291	2SD 314	
BD236		2 SB 250 A	2SB 471			2SB 151		2SB 215	- 145
BD237	2SC 793	2 S D 335							1
BD238		2 SB 253 A			2SB 128 A	2SB 151		2SB 215	9111
BD433	2SC 789		_		2SD 226 A			2SD 315	
BD434		2SB 248			2SB 128A	2SB 5	2SB 518	2SB 509	
BD435					2SD 226 A			2SD 315	
BD436		2SB 248			2SB 28A	2SB 151	2SB 518	2SB 509	
. BD437					2SD 226 A			2SD 315	
BD438		2SB 248A			2SB 128A	2SB 151	2SB 518	2SB 509	
BDY20						*	2SD 340	W 11 11 11 11 11	
BDY38	2SD III					2SD 172		1.0	1000
BDY60	2SC 793		2SC 665		2SC 901			11	12/20
BDY61			2SC 664						
BDY90	2SÇ 558			2SC 769					16
BDY91	2S℃ 558			2SC769					
BDY92	2SC 558			2SC 769					
BDY93	2SC 1172	2SC 1358	2SC 1413	2SC 1309					
BDY94	2SC 1172	2 SC 1358	2SC 1413	2SC 309				_	
BDY95	2SC 1172	2SC 1358	2SC 1413	2SC 1309					- 13
BDY96	2SC 1434								V 1
BDY97	2SC 1434							_	1
BDY98	2SC 1434								1
BF115	2 SC 372	2SC1428	2SC 461						-
BF167	2SC 372	2SC 1428	2SC 461			200 722	-		1
BF173	200 225	2SC 1319	200 1540			2SC 722	280 1127		-
BF177	2SC 995	_	2SC 154C	-	-		2SC 1127 2SC 1127		1000
BF178	2SC 995	000 1100	2SC 154C			2SC 627	236 1121		0.00
BF 179		2SC 1103				250 627			1
BF 180	<u> </u>	2SC 1158							31.7
BF181		2SC 1158							50.054
BF 182		2SC 1158							
BF 183	200 202	2 SC 1158 2 SC 253	2SC 717			2SC 067	+ -		
BF184 BF185	2SC 392 2SC 392	2SC 253 2SC 253	2SC 717			2SC 1067 2SC 1067	-	7. 4.8	
BF 185	230 392	2SC 253 2SC 1320	230111			2SC 7067		1710	
	-	2SC 1320				2SC 722		11 11 11 11 11 11	
BF195 BF196		2SC 1320		_		2SC 722	1	THE VALUE	
BF 196	<u> </u>	2SC 1320 2SC 1320				2SC 722	1.50	16 15	
BF197	-	200 1320	2SC 151H			LOUILL	2SC 352		
BF 199			2SC 15111				2SC 352		
BF 200		2SC 1158	200 10111			· Janes and	COO MALINES		

7		_	-	МА	XIMUM	RA	TINGS						ELE	CTRICAL	CHARA	CTERI	STICS						
TYPE	USE	ERIA	5	Pc	Tj	Vos	Voen	lc	lo	10		hre		hfe	hie	hre	hoe	fr ten	NE	Cob	Cox rbb	OUTLINE	NOTE
	USE	MATERIAL	POLALITY	25°C (mW)	(3)	(V)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(μ ₀)	*fae **fa0 (MHz)	(dB)	(pF)	(ps)	TO-	
BF240	HF	S	N	250	125	40	40	25										380	200 KHZ 3 .5			P-4	
BF241	HF	S	N	250	125	40	40	25										350	200 KHZ 3.5			P-4	
BF254	HF	S	N	300	125	30	20	30			15		1					260	100 MHZ			P-4	
BF255	HF	S	N	300	125	30	20	30			67		H					200	100 HZ			P-4	
BF257	HF	S	N	5 W	175	160	160	200	i n A	100	25		30					90				39	
BF 258	HF	S	N	5 W	175	250	250	200	InA	200	25		30					90				- 39	
BF259	HF	S	N	5 W	175	300	300	200	InA	250	25		30			 		90				39	
BF324	HF	S	P	250	150	30	30	25	0.05	30			- 50			-		500	100 MHZ 3			P-4	
BF336	HF	S	N	3 W	200	185	180	200	0.00		20		30			-		130			30	39	
BF337	HF	S	N	3 W	200	250	200	200			20		30					130			30	39	
BF338	HF	S	N	3 W	200	300	225	200			20		30					130			30	39	
BF450	HF	S	P	250	150	40	40	25								-		325	100 MHZ		1	P-4	
BF451	HF	S	P	250	150	40	40	25			\vdash							3 2 5	100 MHZ		-	P-4	
BF457	HF	S	N	6 W	150	160	160	300	50 n A	100	26		30					90		4.5		126	
BF 458	HF	S	N	6 W	150	250	250	300	50 n A	200	26		30					90		4.5		126	
BF 459	HF	S	N	6 W	150	300	300	300	50 n A	250	26	-	30					90		4.5	+	126	
BF494	HF	S	N	300	150	30	20	30	304	-50	115		10				\vdash	260	100 MHZ	+		P-4	
BF495	HF	S	N	300	150	30	20	30			67		10					200	100 MHZ			P-4	
BFR63	HF	S	N	3.5W	150	40	25	500	10	20	25		150			-		1000	-	_		P-8	
BFR64	HF	S	N	3.5W	150	40	25	500	10	20	25		150			+		1200				P-8	
BFR65	HF	S	N	5 W	200	40	25	400	100	20	20		400					1000		_	1	P-8	
BFR90	HF	S	N	180	150	20	15	25	50 n A	10	25		14			\vdash		5000	500 MHZ 2.4			P-9	
BFR91	HF	S	N	180	150	15	12	35	50 n A	5	25		30					5000	500 MHZ 1.9			P-9	
BFS92	HF	S	P	5 W	200	100	60	IA	50 n A	80	30		150	100	300	7000	60	70	1.9		-	39	
BF S93	HF	S	P	5 W	200	100	60	IA	50 n A	80	70		150	100	300	7000	60	70			+-	39	
BFS94	HF	S	P	5 W	200	80	40	IA.	50 nA	60	40	-	150	100	300	7000	60	70				39	
BFS95	HF	S	P	5 W	200	45	35	IA	50 n A	30	70		150	100	300	7000	_	70				39	
BFW16A	HF	S	N	1.5W	200	40	25	300	20	20	25		150					1200	200 MHZ 6		-	39	
BFW17A	HF	s	N	1.5W	200	40	25	300	20	20	25		150					1100				39	
BFW30	HF	S	N	250	200	20	10	100	50 n A	10	25		50					1600	500 MHZ 5			72	
BFW45	Defl	s	N	2.5W	200	165	130	100	0.1	100	20	120	50					120				39	
BFW92	HF	S	N	190	150	25	15	50	50 n A	10	20	150	2			1		1600	500 MH2			P-9	
BFW93	HF	S	N	190	150	18	10	100	50 n A	10	25		50					1700	500 MHZ 5			P-9	
BFX34	SW	S	N	5 W	200	120	60	2 A			40	50	2 A					100				39	
BFX44	HF	s	N	360	200	40	23	250	0.1	20	40	120	10					300				18	
BFX89	HF	s	N	200	200	30	15	50	10 n A	15	20	125	25					1200	800 MHZ 7			72	
BFY50	HF	S	N	5 W	200	80	35	1A	2 n A	60	112		150	90	750	5	80	140				39	
BFY51	HF	S	N	5W	200	60	30	1 A	2 n A	40	123		150	100	750	5	80	160				39	
BFY52	HF	S	N	5 W	200	40	20	IA	2 n A	30	142		150	110	750	5	80	185				39	
BFY55	HF	S	N	800	200	80	35	ΙA	10 n A	60	40	120	150	L				60				39	
BFY90	HF	S	N	200	200	30	15	25			20	125	25					1400	800 MHZ 5.5			72	
BSS27	S₩	S	N	800	200	70	45	ΙA			30		150					400		<u></u>		39	
BSS28	SW	S	N	800	200	50	30	ΙA			40		150					400				39	
BSS29	SW	S	N	800	200	50	30	ΙA			25		150					400				39	
BSS40	SW	S	N	360	200	60	40	ΙA			25		500					200				18	
BSS41	SW	S	N	360	200	60	30	ΙA			25		500					200				18	
BSV 15	S₩	S	Р	800	200		40	ΙA			40	250	100	20	L			50				39	
BSV16	SW	S	Р	800	200		60	ΙA			40	250	100	20				50				39	
BSV 17	SW	S	Р	800	200		80	ΙA			40	160	100	20				50				39	
BSV64	SW	S	N	5 W	175	100	60	5 A	10	60	40		2 A					100				39	
BSV68	SW	S	Р	250	150	110	100	100	5	100	30		25					95				18	
BSV86	SW	S	N	220	150	75	30	400	0.1	60	100	300	150					100				P-5	
BSV87	S₩	S	N	220	150	75	30	400	0.1	60	40	120	150					100				P-5	
BSV88	SW	s	N	220	150	60	25	400	0.1	30	35		150					100				P-5	
BSV96	SW	S	Р	220	150	30	30	300	0.1	20	100	250	150					75				P5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BF240		2SC1320							
BF241		2SC1320							
BF254		2 S C 1 3 2 0							
BF255		2 S C I 320							
BF257		2SC 1456	2SC 1304						
BF258		2SC1456	2SC 1304						
BF259		2SC 1456	2SC1304					Commence of the	1.1
BF324	2SA494	2 S A 750					2SA 678	mass.	
BF336			2SC 685		2SC582				
BF337			2SC685		2SC582				
BF338			2SC685		2SC582				
BF450	2 SA 494						2SA 678		
BF451	2SA 494					_	2SA 678		†
BF457						_		1	
BF458						_			+
BF459					-			-	
BF494		2SCI320	-			2 SC 722	- '		+
BF 495		2SC1320			-	2SC 722		7	+
BFR63		200.020			-	2SC 1484			+
BFR64						2SC1484		<u> </u>	+
BFR65	-					2SC1484			1
BFR90	2SC1193	2 SC 1 268					100		4.0
	2SC1193 2SC1193		_			2SC1421		-	
BFR91	2301193	2SC1268				2SC1421	204.70	-	
BFS92							2SA 761		-
BFS93							2SA 761		-
BFS94							2SA 761		2.17
BFS95					_		2SA 761		
BFW16A		2SC1249	_			2SC1262		4	X 1
BFW17A		2SC1249				2SC1262			
BFW30	2SC1164	2SC 852				2SC1068			
BFW45					2SC1012				
BFW92		2SC1424							
BFW93		2SC1424							
BFX34					2SC 697 A		2SC756	2SC931	
BF.X44	2SC498	2SC 729		2SC 306	2 SC 456	2SC202			
BFX89		2SC 424				· · ·			12.0
BFY50		4.7		2SC1224		CONT. KET	0.0	3.7	
BFY51				2SC1224	3.5				
BFY52				2SC1224	BELL WILL				7
BFY55	2 SC 1381		2SC1212A	The second				4 27	100
BFY90		2SC1424							1 1997
BSS27	2SC1381		2SC1212A				- 1		1 3
BSS28	2SC1381		2SC1212A				9	-	100
BSS29	2SC1381		2SC1212A						1
BSS40	2SC 497				2SC1384			- 1	1900 00
BSS41	2SC 497		-		2SC+384			- 7	7/1
BSV 15	2SA 484				200,004	-	2SA 762		
BSV16	2SA 484						2SA762		15.7
BSV 17	2SA 484				-		2SA 762	-	
BSV64	2SC 981					5 2 3	237 /62	and the second	1 138
	230 981	004675	0045404			-	21		
BSV 68	200 :27	2SA 675	2SA 549 A			20.000		Sel S	
BSV86	2 S C 497			2SC 309		2S C827	1 1	112	100
BSV87	2SC 497			2SC 309		2S C827		A Bu	3000
BSV88	2SC 497			2 S C 309		2S C827		The Action	A STAGE
BSV96	/	2SA 642	2SA 673			2SA555			ALCOHOL:

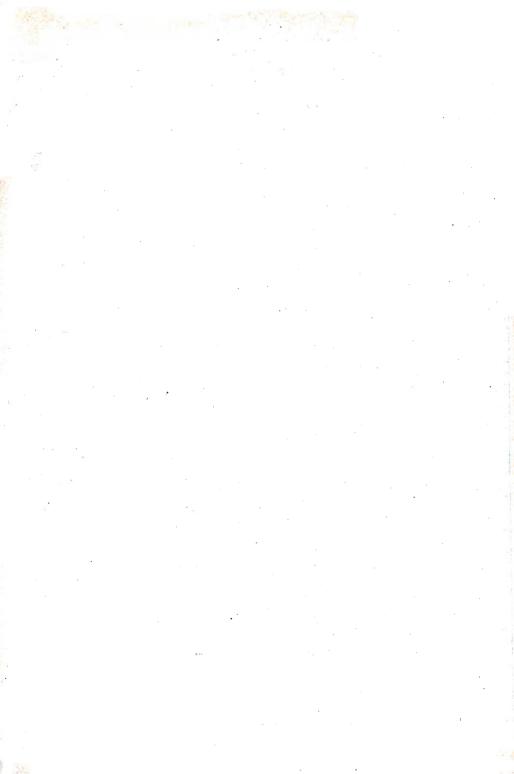
٠.	PHILIP	3	_																					
٦			A.	Ţ		XIMUM	RAT	INGS						ELE	TRICAL	CHARA	CTERIS	TICS					OUTLINE	
1	TYPE	USE	MATERIAL	POLALITY	Pc 25℃	Τj (τ)	Vos (V)	V 080	lc (=4)	la:			hFE	. (.)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	fT *fa8 *#faD	NF (dB)	Cob (pF)	Coxitab (ps)	TO-	NOTE
1	501107	-	_	ш	(m₩)	_		(V) 30	(mA)		ν _α (γ) 20	m in . 40		ic(mA)		(2)	(>10)	(μο)	(MHz) 75	(00)	(27)	(ps)	P5	
H	BSV97 BSV98	SW	S	P	220	150 150	80 30	30	300	0.1	20	30	120	150					75				P-5	
H	BSW41	SW	S	N	1 W	200	40	25	500	0.5	30	15		500					250			_	18	- 1
1	BSW66	SW	S	N	5W	200	100	100	1 A	100	100	30	•	500					80				39	
ı	BSW67	sw	S	N	5W	200	120	120	ΙA	100	120	30		500					80				39	
	BSW68	SW	S	N	5 W	200	150	150	1 A	100	150	30		500					80			,	39	
	BSW69	SW	S	N	125	125	150	150	50	0, 1	100	30		4					130				P-5	
	BSX12	SW	S	Z	3 W	200	25	12	ΙA	10 nA	25	30	120	300					620				39	
	BSX12A	s₩	S	N	3 W	200	25	15	ΙA	10 n A	25	30	120	300					620				39	
	BSX19	SW	S	N	360	200	40	15	500	0.4	20	20	60	10			-		400				18	
H	BSX20	SW	S	N	360	200	40	15	500	0.4	20	40	120	10 4			\vdash		500 60				18	
+	BSX2I	SW	S	N	300	175 200	120 70	80 45	100 1 A	1 n A 0.5	90 40	80 30		-					450				39	
H	BSX59	SW	S	N	800	200	70	30	IA	0.5	40	30		500 500					475			-	39	
+	BSX60 BSX61	SW	S	N	800	200	70	45	-1A	0.5	40	30		500			-		475			<u> </u>	39	
-	BSY38	SW	S	N	300	175	20	15	100	0.1	20	30	60	10					350				18	
1	BSY39	SW	S	N	300	175	20	15	100	0.1	20	40	120	10					350				18	2.5
	BU105	Defi		N	10W	115		1500											7.5				3	
	BU108	Defl	-	N	12.5W	115	1500	1500	5 A										7				3	
	BU126	Defi	S	N	30 W	125		300	3 A			15	60	IA					8				3	= :
	BU132	Defi	S	N	15W	135		600	ΙA			25	80	250					8				3	
L	BU133	Р	S	N	30 W	125		250	3 A			15	80	1 A					8				3	
. -	B U204	Def	-	N	10W	115			2.5A			2		2 A					7.5				3	_
L	BU205	Defi	-	N	10W	115			2.5A			2		2 A			_		7.5				3	
⊢	BU206	Defi	-	N	10W	115		800 600	2.5A			1.8 2.25		2 A					7.5				3	-
H	BU207 BU208	Def Def		N	12.5 W	115		700	5 A			2.25		4.5A 4.5A					7				3	
H	BU209	Defi	-	N	12.5W			800	4 A			2.25		3 A			_		7		-		3	
h	50200	10011	Ť	···	12.01				-7.77										·					
ı																								
Г			Т		_																			
L																								
L		<u> </u>	L																·					
F		-	Ļ	ļ.,			05												000				18	
\vdash	2 N 7 0 6 A	SW	+	N	300	175	25	15	500	0.5	15	20	60	10					200 300			-	18	
\vdash	2N708 2N743	SW	+-	N	360 300	175	20	15	500 200	25 n A	20	30 20	120 60	10			-	-	300			-	18	
H	2N743	SW	-	N	300	175	20	12	200	<u> </u>	20	40	120	10		<u> </u>			300				18	
H	2N753	SW	-	N	300	175	25	15	50	0.5	15	40	120	- 10			†		200			-	18	
r	2N914	SW	-	N	360	200	40	15	500	25 n A	20	30	120	10			Γ.		300				18	
r	2N918	HF	S	N	200	200	30	15	50	10 nA	15					Ľ			900	60MHZ 6			72	
ľ	2N929	LF		N	300	175	45	45	30	10 nA	45	100	350	10	200	5 K	2.5	14	80				18	
	2N930	LF	S	N	300	175	45	45	30	10nA	45	150	600	10	350	10 K	5.5	25	80		ļ		18	
	2N1302	SW	-	N	150	85	25	25	200	3	25	20		10			<u> </u>		10		ļ		5	
-	2N1303	SW	+	Р	150	85	30	25	300	3	25	20		10			-		5			_	5	
-	2N1304	SW	+-	+	150	85	25	20	200	3	25 25	40	100	10					15				5	
1	2N1305 2N1306	SW	-	P N	150 150	85 85	30	20	300 200	3	25	40 60	100 200	10					20			-	5	
1	2N1306	SW	-	P	150	85	25 30	15	300	3	25	60	200	10				<u> </u>	15				5	
1	2N1307	SW	-	N	150	85	25	15	200	3	25	80	300	10					30				5	
1	2N1309	SW	+	_	150	85	30	15	300	3	25	80	300	10					20			t	5	
1	2N1613	HF	s	N	800	2Q0	75	50	I A	10 nA	60	40	120	150					60	I KHZ			39	
1	2N1711	HF		N.	800	200	75	50	I A	10 nA	60	60	300	150					70	I KEZ 8			39	
	2N1893	ŊF	+		3 W	200	120	100	500	10nA	90	40	120	150									5	
-			_																					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BSV97									
BSV98		2SA 642		2SA 695	_	2SA 555			
BSW4I		2SC 890		2SC 1016				-	
BSW66				2SC 1224				ļ	-
BSW67				2SC 1224				-	ļ
BSW68				2SC 1224				ļ	-
BSW69		2SC 1278	2SC 857K	200 1001					
BSX12				2SC 1224					
BSX12A	200407			2SC 1224	000 1004				-
BSX19 BSX20	2SC 497			2SC 1211	2SC 1384				
	2SC 497			2SC 1211	2SC 1384	000.000			1
BSX2I	0001304		000 12124			2SC 826	-	-	-
BSX59	2SC 1381 2SC 1381		2SC 1212A 2SC 1212A					_	_
BSX60								-	
BSY38	2SC 1381 2SC 400	2SC 943	2SC 1212A			200.001			
			2SC 1373			2SC 204		+	+
BSY39	2SC 400	2SC 943	2SC 1373		2 SD 299	2 S C 204	,		
BU105		2SC 1358							
BU108 /		2SC 1358		_	2SD 299 2SD 380		_		_
					2SD380 2SD246				
BU132	000 702	000 1100	2 SC 935		250246	000000		-	
BU133	2SC 792	2SC 1106	250 935		0.00.200	2 SC 825			-
BU204 BU205					2 S D 299				-
	<u> </u>				2SD 299			-	
BU206			-		2 S D 299				_
BU207			_		2SD299		-	_	1
BU208 BU209					2SD 299 2SD 299		-		1 200
BU2U3			_		230233		-	-	
								4.4	-
								4 4 1 1 1 1 1	-
								7	
			_						_
									-
2N706A	2SC 503		2SC 1385			2SC1150			- 7
2N708A	2SC 503		2SC 1385			2SC1150			
2N743	2SC 735		230 1303	2SC 619		2301130	2SC 1363		+
2N744	2SC 735			2SC 619			2SC 1363	_	
2N753	200 /33			2SC 1240	J.		230 1303	1	+
2N753 2N914	2SC 503		2SC 1385	2001240		-2SC1150	 	 	+
2N914 2N918	200 000	2SC 1424	230 1303			-2001100		-	+
2N929		230 1424		2SC 1240	_	2SC 722			+
2N929 2N930				2SC 1240		2SC 722	-	 	
2N1302	2SC 594	2SC 1216	2SC 321	200 1240		2SC 565	1		
2N1302	2SA 562	2\$A 642	2SA 673	2 SA 695		20000		-	-
E111303	2SC 594	2SC 1216	2SC 321	23A 033	_	2SC 565	-	-	-
2N1305	2SA 562	2SA 642	2SA 673	2 S A 695		200 000			
2N1305	2SC 594	2SC 1216	2SC 321	237 033		2SC 565			-
2N1307	2 S A 562	2SA 642	2SA 673		-	200 000	_	+	
2N1308	2SC 594	207.042	2SC 321			2SC 565			
2N1308	2SA 562	2SA 642	2SA 673	2 S A 695		230303			-
2N1613	2SC 1381	20/1042	2SC 1212A	E 0 A 0 3 3	-		-		-
2N1711	2SC 1381	•	2SC 1212A						1
	200 1001	1	200 1212 M				1	1	

PHILIPS

		Į.	-	MA	CIMUM	RAT	INGS				15.		ELE	CTRICAL	CHARA	CTERIS	TICS			-		OUTLINE	
TYPE	USE	MATERIAL	POLALIT	Pc 25°C	i) (T)	Voa (V)	Voso (V)	Ic (mA)	Ια (μΑ)	o Vos(V)	min.	hre max.	Ic(mA)	hfe	hie (Q)	hre (×10 ¹)	hoe (μδ)	ft *fae **fao (MHz)	NF (dB)	Cob (pF)	CoXitbb* (ps)	TO.	NOTE
	2111			(mW)	175	60	30	_	10nA	50	35		10					250			-	39	
2N2218	SW	S	N	800	_	_	-	800	10 nA	60	35		10			Н		250				39	
2N2218A	SW	S	N	800	175	75	40	800	10 nA	50	75	<u> </u>	10			-		250			-	39	
2N2219	SW	S	N	800	175	60	30	800			_							300			+	39	
2N2219A	SW	S	N	800	175	75	40	800	10nA	60	75	_	10					250				18	
2N2221	SW	S	N	500	175	60	30	800	10nA	50	35		_					250			+-	18	
2N2221 A	SW	S	N	500	175	75	40	800	10nA	60	35		10			_		250			-	18	
2N2222	SW	S	N	500	175	60	30	800	10nA	50	75		10					300				18	
2N2222A	SW	S	N	500	175	75	40	800	10nA	60	75		10					60			800	39	_
2N2297	HF	S	N	800	200	80	35	IA	10 nA	60	40	120	150			-					800	18	
2N2368	SW	S	N	360	200	40	15	500	0.4	20	20	60	10	£.		-		400			-	18	
2N2369	SW	S	N	360	200	40	15	500	0.4	20	40	120	10			-		500			-	_	
2N2369 A	SW	S	N	360	200	40	15	500	0.4	20	40	120	10		L	_		500	2	-	+	18	
2N2483	HF	S	N	360	200	60	60	50	10 n A	45	175			80	1.5K		30	80	3	_	+	18	
2N2484	HF	S	N	360	200	60	60	50	10 n A	45	250		1	150	3.5K	8	40	80	3	- 04	+-	18	
2N2894	SW	S	Р	360	200	12	12 -	_	80 n A	6	40	150	30			_	<u> </u>	-		-	+	18	
2N2894 A	SW	S	Р	360	200	12	12	200	50 n A	10	40	120	30							<u> </u>	-	18	
2N2904	SW	S	Р	600	200	60	40	600	20 n A	50	35		10					200		<u> </u>	4	39	
2N2904 A	SW	S	Р	600	200	60	60	600	10 n A	50	40		10					200		_	<u> </u>	39	
2N2905	SW	S	P	600	200	60	40	600	20 n A	50	75	Γ	10					200				39	
2N2905 A	SW	S	P	600	200	60	60	600	10 n A	50	100		10					200			<u> </u>	39	
2N2906	SW	S	Р	400	200	60	40	600	20 n A	50	35		10					200				18	
2N2906 A	SW	s	P	400	200	60	60	600	10 n A	50	40		10					200				18	
2N2907	SW	S	P	400	200	60	40	600	20 n A		75		10					200				18	
2N2907 A	SW	S	-	400	200	60	60	600	10 n A		100		10					200				18	
2N3055	Р	s	N	115W	200	100	70	15A			20	70	4 A	15		T		0.8				3	
2N3303	SW	-	-	3 W	200	25	12	ΙA			30	120	300					450				39	
2N3426	SW			3 W	200	25	12	I A			30	120	300					450				39	
2N3442	P	S	-		200	160	140	IOA	50	140	20	70	3 A									3	
2N3570	HF	Ť	+	T												*							
2N3571	HF	\vdash	+	-	_																	T	
2N3572	HF	+	+	-			\vdash	-	 	+	\vdash	\vdash				†		- 1					
2N3771	P	s	N	150W	200	50	40	30 A	2 mA	50	15	60	15 A	1	_	1-		1.25				3	
2N3772	P	S	-		200	100	60	20 A	5 m A	100	+	60	10 A	-	_	+	-	1.25			T-	3	
2N4036	sw	-	-	5 W	200	90	65	IA	20 n A	60	40	140	-	1		+		60				39	
	P	S	+		200	140	120	5 A	50	140	+	+	4 A		+	+	1					3	
2N4347	ļ-	+°	+17	100 ₩	200	140	120	3 7	1 30	140	120	+~	47	1	+	+		\vdash			_		
	-	+	+	├						+	+	+	+		+	+					1		
	1	+	+	+	\vdash	 	-	-	\vdash	+	+	+-		+	+-	+	1			1	1		
	1	+	+	+	+-			_		\vdash	+	+	1	+	+	+		+			1	T	
	4	+	+-	1	-	-	 	\vdash	\vdash	+-	+-	+	1.	+	+	+	+	+			1	T	
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	4	+	+	+	-		-	-	-	\vdash	+	+	+	+	+	+	+	+	—	+	+	+	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANY0	NOTE
2N2218	2SC1381		2SC 1212					2SC 614	†
2N2218A	2SC1381		2SC 1212						
2N2219	2SC1381		2SC 1212						
2N2219 A	2SC 38		2SC 1212						
2N2221	2SC1381		2SC 1212		6				
2N2221 A	2SC 38		2SC 1212						
2N2222	2501381		2SC 1212						
2N2222A	2SCI381		2SC 1212			L			
2N2297	2SCI38I		2SC 1212						
2N2368	2 S C 503	2SC97A				2SC1150			
2N2369	2 S C 503	2SC 97 A				2SC1150			
2N2369 A	2SC 503	2SC 97 A				2SC1150 .			
2N2483		_		2SC 1240				<u> </u>	
2N2484				2SC 1240					
2N2894	2SA 497		2SA 673A	2SA 697					
2N2894A	2SA 497		2SA 673A	2SA 697					
2N2904					2SA752				
2N2904A					2SA752		,		
2N2905					2SA752				
2N2905 A					2SA752				
2N2906		2 S A 505		<u> </u>	2SA731			`	
2N2906 A		2 S A 505			2SA731				
2N2907		2SA 505			2 SA 731				
2N2907 A		2 S A 505			2SA 731				
2N3055							2 S D 340		
2N3303				2SC1224				2SC 614	
2N3426				2SCI 224		_		2SC 614	7.0
2N3442			2SC1343				2SD 262		
2N3570									
2N3571									
2N3572									
2N3771	2SD 114					2SD 250			
2N3772	2SD 13	2 SD 132							
2N4036							2SA 761		
2N4347	2SD118					2SD 177			
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Westinghouse

WESTING HOUSE

- LL CE		1	>	МА	XIMUM	RA1	TINGS						ELE	CTRICAL	CHAR	CTERI	STICS					OUTLINE	
TYPE	USE	MATERIA	POLALITY	Pc 25°C	Τj	Vas	V ceo	lc	le	80		hfe		hfe	hie	hre	hoe	ft *fae **fao	NF		Coxitab'	TO.	NOTE
mw.		×	8	(m\)	(T)	(V)	(V)	(mA)	(µ A)	Vos(Y)	min.	max.	Ic(mA)		(<u>Q</u>)	(×10)	(μō)	**1a0 (MHz)	(dB)	(pF)	(ps)	10.	
2N5038	SHP	S	N	140 W	200	150	90	30 A			20	100	12A	12								3	
2N5039	SHP	S	N	140W	200	120	75	30 A			20	100	10 A	12								3	
2N5929	SHP	S	N	175W	200	90	80	30A		10	20	100	10 A					30		800		3	
2N5930	SHP	S	N	175 W	200	130	120	30 A		10	20	100	10A					30		800		3	
2N5931	SHP	S	N	175 W	200	170	160	30 A		10	20	100	10 A					30		800		3	
2N5932	SHP	S	N	175 W	200	70	60	30 A			20/12	100/60	20A/30A					30		800		3	
2N5933	SHP	S	N	175W	200	110	100	30 A			20/12	100/60	20A/30A					30		800		3	
2N5934	SHP	S	N	175₩	200	150	140	30 A			20/12	100/60	20A/30A					30		800		3	
1743-0610	SHP	S	N	175W	200	70	60	30 A			8/20	49/100	30A/10A					30		800		3	
1743-1010	SHP	S	N	175W	200	110	100	30 A			8/20	49/100	30A/10A					30		800		3	
1743-1410	SHP	S	N	175W	200	150	140	30 A			3/ ₂₀	49/100	30A/10A					30		800		3	
1743-1810	SHP	S	N	175W	200	190	180	30 A			8/20	49/100	30A/10A					30		800		3	
1743-0820	SHP	S	N	175W	200	90	80	30 A			20/12	100/60	20A/30A					30		800	L.	3	
1743-1220	SHP	S	N	175 W	200	130	120	30 A			20/12	100/60	30A					30		800	L.	3	
1743-1620	SHP	S	N	175 W	200	170	160	30 A			20/12	100%	20A/30A					30		800		3	
1743-1820	SHP	S	Ñ	175 W	200	190	180	30A			20/12	100/60	20A/30A					30		800		3	
1743-0630	SHP	S	N	175 W	200	70	60	40 A			20/10	100/50	30A/40A					, 30		800		3	
2N5935	SHP	S	N	175 W	200	90	80	40 A			20/10	100%	30A/40A					30		800		3	
1743-1030	SHP	S	N	175 W	200	110	100	40 A			20/10	100%	30A/40A					30		800		3	
2N5936	SHP	S	N	175W	200	130	120	40 A			20/10	100%	30A/40A					30		800		3	
1743-1430	SHP	S	N	175 W	200	150	140	40 A			20/10	10%	30A/40A					30		800		3	
2N5937	SHP	s	N	175W	200	170	160	40 A			20/10	100/50	30A/40A					30		800		3	
1743-1830	SHP	S	N	175 W	200	190	180	40 A			20/10	10%	30A/40A					30		800		3	
1843	SHP	S	N	150 W	200	375	350	30 A	10m	350	15		5 A					20		500		3	
2N1015	Р	S	N	150 W	150	30	30	7.5A			10	14	2 A										
2N 1015A	Р	S	N	150W	150	60	60	7.5A			10	14	2 A										
2N 1015B	Р	S	N	150 W	150	100	100	7.5A			10	14	2 A			T							
2N1015C	Р	S	N	150 W	150	150	150	7.5A			10	14	2 A										
2N1015D	Р	S	N	150 W	150	200	200	7.5A			10	14	2 A										
2N1015E	Р	S	N	150 W	150	250	250	7:5A			10	14	2 A										
2N1015F	Р	S	N	150 W	150	300	300	7.5A			10	14	2 A										
2N1016	Р	S	N	150W	150	30	30	7.5A			10	18	5 A										
2N1016A	Р	S	N	150 W	150	60	60	7.5A			10	18	5 A										
2N1016B	P	S	N	150 W	150	100	100	7.5A		T .	10	18	5 A			П							
2N1016C	Р	S	N	150W	150	150	150	7.5A			10	18	5 A										
2N1016D	Р	S	N	150W	150	200	200	7.5A			10	18	5 A										
2N1016E	Р	S	N	150W	150	250	250	7.5A			10	18	5 A										
2N1016F	Р	s	N	150 W	150	300	300	7.5A			10	18	5 A										
2N3429	SW	S	N	150 W	175		50	7.5A			10	35	5 A					250 KHZ		800			
2N3430	SW	S	N	150W	175		100	7.5A			10	35	5 A					250 KHZ		800			
2N3431	SW	s	N	150W	175		150	7.5A			10	35	5 A	-				250 KHZ		800			
2N3432	SW	s	N	150W	175	1	200	7.5A			10	35	5 A					258 KHZ		800			
2N3433	sw	s	N	150 W	175		250	7.5A			10	35	5 A					250 KHZ		800			
2N2226	P	s	N	150 W	150	50	50	10 A			100	360	10A	7				500 KHZ					U.H.GAI
2N2227	P	s		150 W		100	100	-			100	360	10A	7				500 KHZ	<u> </u>				U.H.GA
2N2228	P	s	-	150 W	-	150	-	_			,100	360	10A	7				500 KHZ					U.H.GAI
2N2229	P	s	N	150 W	150	200	200	IOA			100	360	10A	7				500 KHZ					U.H.GAI
2N2230	P	s		150 W	_	50	50	IOA			400	660		7				S00 KHZ					U.H.GA
2N2231	P	S	-	150 W	-	50	50	10A			400	660	10A	7				500 KHZ					U.H.GA
2N2232	P	S		150W	1000	100	_		t		400	660	+	7				S00 KHZ					U.H.GA
2N2233	₩ P	S	-	150 W	+-	150	-	-		T	400	_	_	7				500 KHZ					U.H.GA
2N3470	P	S	_	150 W		50	-	_			100	360		7	1			500 KHZ	-		<u> </u>		U.H.GAI
2N3471	P	s	-	150 W	_	100	-	10 A			100	360	_	7				500 KHZ				Ι	U.H.GAI
2N3472	₽ P	S	-	_	-	150	-	10A			100	360	_	7	+			S00 KHZ		\vdash	†		U.H.GAI
2N3472	P	S		150 W	-	200	-	10A	+	1	100	-		-	1	-	+	S00 KHZ		1	+		U.H.GAI

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TYPE	TOSHIBA	NEC .	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	E.T.C	NOTE
2N5038	2SD113Y			_					
2N5039	2SD113Y					-			
2N5929	2SDII4Y								
2N5930						2SC1301			
2N5931					14.	2SC1301	_		
2N5932	2SDII4Y								
2N5933	2SD113Y								
2N5934						2SC1301			
1743-0610	2SD114Y			-					
1743-1010	2SD113Y								
1743-1410						2SC1301			
1743-1810 1743-0820						2SC1301			
1743-1220 1743-1620		-							
1743-1820									
1743-1620	2SC1435	2SD179							+
2N5935	2SC1435	2SD179							
1743-1030	2S C 1435	2SD179							+
2N5936	2SC 1435	2SD179							+
1743-1430	2SC1435	2SD179							
2N5937	2SC1435	2SD179							
1743-1830	2SC1435	2SD179							
1843	2S C1435					2SC1302			
2N1015	2SD114					2SD196A			
A2101A2	2SD114	2SD132	_			2SD196A			
2N1015B	2SD113	2SD132				2SD196A			
2N1015C									
2N1015D						18			
2N1015E									
2N1015F									
2N1016		2SD132							
2N1016A		2SD132							
2N1016B 2N1016C		2SD132							
2N1016C 2N1016D	_					2SC1299			
2N1016E						2SC1299			
2N1016E						2SC1299 2SC1299			
2N3429	2SD114-0					2301299			
2N3430	2SD113-0								
2N3431	20000					2SC1301			-
2N3432						2SC1301			
2N3433						2SC1301			1
2N2226	2SD114Y					2-2.001			
2N2227	2SD113Y					-			
2N2228									- 20 0
2N2229									
2N2230									
2N2231									
2N2232	1								
2N2233									
2N3470	la.								
2N3471									1035
2N3472									
2N3473									5511

WESTING HOUSE

		1	-	MA	XIMUM	RAT	INGS						ELE	CTRICAL	CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vas	Voro	Ic	10	80		hFE		hfe	hie	hre	hoe	fT +fat ++fap	NF	Cob	Coxrbb	TO-	NOTE
		YM	8	(mW)	(2)	(٧)	(٧)	(mA)	(μA)	Vos(V)	min.	_	Ic(mA)		(Ω)	(×10)	(μδ)	(MHz)	(48)	(pF)	(ps)		
2N3474	Р	S	N	150W	150	50	50	IOA			400	660	10A			<u> </u>		500 KHZ					U.H.GAII
2N3475	Р	S	N	150W	150	100	100	I0A			400	660	IOA					500 KHZ					U.H.GAII
2N3476	Р	S	N	150W	150	150	150	IOA			400	660	10A					500 KHZ					U.H.GALI
2N3477	Р	S	N	150W	150	200	200	I0A		-	400	660	10A					500 KHZ					U.H.GAII
153-04	P	S	N	200W	175	65	40	7.5A		65	15		1.5A									<u> </u>	
154-04	Р	S	N	200W	175	65	40	7.5A		65	25		1.5A										
153-06	Р	S	N	200W	175	85	60	7.5A			15		1.5A										
154-06	Р	S	N	200W	175	85	60	7.5A			25		1.5A										
153-08	Р	S	N	200W	175	105	80	7.5A	-		15		1.5A								<u> </u>		
154-08	Р	s	N	200W	175	105	80	7.5A			- 25		1.5A										
153-10	P	s	N	200W	175	125	100	7.5A			15		1.5A										
154-10	P	s	N	200W	175	125	100	7.5A			25		1.5A										
153-12	Р	S	N	200W	175	145	120	7.5A		T	15		1.5A										
154-12	Р	s	N	200 W	175	145	120	7.5A			25		1.5A										
153-14	P	S	N	200W	175	165	140	7.5A	<u> </u>		15		1.5A										
154-14	P	s	N	200W	175	165	140	7.5A		1	25		1.5A	Γ.									
153-16	P	s	N	200 W	175	185	160		 		15		1.5A			1							
154-16	P	S	N	200W	175	185	160				25		1.5A	— —		+				T			
153-18	P	S	N	200W	175	205	180	_		+-	15	\vdash	1.5A					T^-					
154-18	P	S	N	200 W	175	205	180	7.5A	-		25	\vdash	1.5A		<u> </u>	+	.	+					
	P	S	N	200W	175	225	200	7.5A			15		1.5A			+-							
153-20	P		+	200 W	175	225	200	7.5A			25		1.5A			+		+					
154-20	P	S	N	200 W	175	245	220	-	 -		15		1.5A			+-	-	+				<u> </u>	
153-22	P	S		200W	175	245	220	7.5A	-	-	25	├	1.5A			+		+			-		
154-22	<u> </u>	S	N		_					\vdash	15		1.5A		-	+	-	+		_	+-		
153-24	Р	S	N	200W	175	265	240	7.5A		-	-	-	1.5A	-		+	-	+-		-	-	-	
154-24	Р	S	N	200W	175	265	240		-	+	25 15		1.5A	-		+		-			-		
153-26	P	S	N	200W	175	285	260	+		+	_	-				-	-	-	_	_		,	-
154-26	Р	S	N	200 W	175	285	260	-	_		25	-	1.5A			+				-	+-	 	_
153-28	P	S	_	200 W	175	305	280	7.5A	<u> </u>	-	15		1.5A			+	-	├ ──	<u> </u>		+	1	
154-28	Р	S	_	200 W	175	305	280	7.5A	-		25	-	1.5A			+	-	\vdash		-	\vdash	_	
153-30	P	S		200 W	175	325	300	_	<u> </u>	-	15	-	1.5A	-	 	+		-		 	\vdash	-	1
154-30	Р	S	-	200W	175	325	300	_			25		1.5A		,	+	-	-			-	3	
2N3055	Р	S		115W	200	100	60	+	₩	+-	20	_	4 A	15		+		25			+	3	
2N3442	Р	S	+-	117W	200	160	160	_		 	20		3 A	12				2.5 KHZ 30			1	_	
2N3054	Р	S	-	-	200	90	90	-	_		25	100	_	25	-	-		30 KHZ		050	+	66	
1714-0402	S	S	-	100 W	200	50	40	10A	ļ	_	20		2 A	ļ		-		40		250	_	66	<u> </u>
1714-0405	S	S	_	100W	200	50	40	-	<u> </u>	_	20	_	5 A		-	-	-	40		250		66	
1714-0602	S	S	-	-	200	70	60	_			20	_	2 A	_	_		-	40		250		66	
1714-0605	S	S		_	200	70	60	-	_		20	-	5 A		-	-	-	40		250		66	
1714-0802	S	S	+-	_	200	+	-	_	1	-	20	_	2 A	_	-	+-	-	40	-	250	\vdash	66	-
1714-0805	S	S		_	200	90	80	-	ļ	\perp	20	_	5 A	<u> </u>			_	40	-	250	-	66	-
1714-1002	S	S	N	100W	200		-		L		20		2 A	<u> </u>		_	ļ	40		250	_	66	
1714-1005	S	S	-		200	_	+	_		\perp	20	-	5 A	<u> </u>	1	_		40		250	-	66	ļ
1714-1202	5	S	N		_	130	120		_		20		2 A	<u> </u>	<u> </u>			40		250	_	66	<u> </u>
1714-1205	S	S	N	100 W	200	130	120	-	+		20		5 A	_		\perp	_	40	ļ	250	\perp	66	
1714-1402	S	5	N	100 W	200	150	140	10A		32	20	_	2 A	\perp				40	ļ	250		66	
1714-1405	S	S	N	100W	200	150	140	10A	\		20	_	5 A			\perp		40		250	1	66	
1714-1602	S	S	N			170					20	_	2 A	· _				40		250	\perp	66	<u> </u>
1714-1605	S	5	N	100 W	200	170	160	10A			20		5 A					40	ļ	250		66	
1714-1802	S	5	N	100 W	200	190	180	10A			20		2 A					40		250		66	
1714-1805	s	1	1	100 W	200	190	180	10A			20	1	5 A					40		250		66	
1723-0405	_	1	S N	100 W	200	50	40	20 A		1	20	1	5 A		T			30		800		3	
1723-0410	_				-	_	_	_	+	1	20	il –	10 A			1		30		800		3	
1723-0605		5	-		-	-	_	_	+	\top	20		5 A					30		800		3	
1723-0610			3 N		-	_	-	_			20		10 A		1			30		800		3	

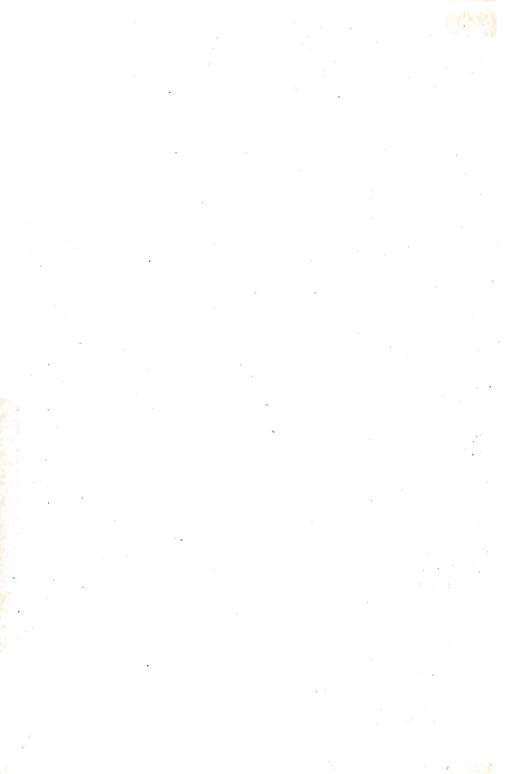
						F	00111	0.4400	NOTE
TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3474						•			
2N3475									
2N3476									
2N3477	٧.						•		
153-04	2SDI14Y				16.1				
154-04	2SD114Y								
153-06	2SD113Y								
154-06	2SD113Y								
153-08									
154-08			-						
154-10									
153-12									
154-12	-								
153-14									
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154-28 153-30									,
154-30									
2N3055	2SD113Y	,	-			_			-
2N3442	2301131								
2N3054	2SD131		2SD125			2SD175			
1714-0402	2SC1080	2SD151	200123			2SD176	-		
1714-0405	200,000	2SD151		-		2SD176			555
1714-0602	2SC1080	2-5101				2SD176			
1714-0605						2SD176			
1714-0802	2SC1080					2SD176			
1714-0805		·				2SD176			
1714-1002	2SC1080					2SD177			
1714-1005	-					2SD177			
1714-1202	2SC 1679					2SD197A			
1714-1205						2SD197A			
1714-1402	2SC1079					2SC1229			
1714-1405						2SC1229			
1714-1602						2SC1229			
1714-1605						2SC1229			100
1714-1802						2SC1229			-
1714-1805	0001141					2SC1229		100	
1723-0405	2SD114Y					2SD231			
1723-0410	2SD114Y					2SD231			
1723-0605	2SD114Y 2SD114Y	-				2SD232			
1723-0610	2501144		l .			2SD232			den Liberari

WESTING HOUSE

WESTIN	0 110		_					_						OTDICA	CUAR	LCTED:	STICS						
		IAL	7	-	MUMIX	RAT	INGS						ELE	CTRICAL	CHARA			fr				OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	(T)	Voe (V)	V ₀₈₀ (V)	lc (mA)	ία (μΑ)	ю Vos(V)	min.	hre	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	*fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	то.	NOTE
				(m\)					(µn)	¥(B(¥)	20	max.	5 A			-	-	30 IOMHZ	,	800	H	3	
1723-0805	A.S	S	N	100W	200	90	80	20 A			20		IOA			-		30 10MHZ		800		3	
1723-0810	S.A	S	N	100W	200	90	80	20 A			20		5A			-		30 10MHZ		800		3	-
1723-1005	S.A	S	N	100 W	200	110	100	20 A			20		10A					30 10MHZ		800	_	3	
1723-1010	S.A	S	N	100W	200	110	100	20 A			20		5 A					30 10MHZ		800	_	3	3-3
1723-1205 1723-1210	S.A	S	N	100 W	200	130	120	20 A			20		10A					30 10MHZ		800		3	
1723-1210	S.A S.A	S	N	100 W	200	150	140	20 A			20	_	5A			-		30 10MHZ		800		3	
1723-1410	S,A	-	N	100 W	200	150	140	20 A			20	_	10A					30 10MHZ		800		3	
1723-1410	S.A	S	N	100 W	200	170	160	20A			20	-	5A					30 10MHZ		800		3	5.5-
1723-1603	S.A	S	N	100 W	200	170	160	20A			20		10A			+		30 10MHZ		800		3	
1723-1805	S.A	S	N	100W	200	190	180	20A			20		5A					30 10MHZ		800	_	3	
1723-1810		S	N	100 W	200	190	180	20 A			20		10A					30 10MHZ		800		3	
2N3711	S.A	S	N	150W	200	50	40	30 A	2 m	50	15	60	15A	40		T		1.5		500		3	
1561-0615	S.A	S	N	150W	200	60	60	30 A	2 m	50	15	60	15A	40				1.5		500		3	
1561-0815	S.A	S	N	150W	200	80	80	30A	2 m	50	15	60	15A	40				1.5		500		3	
1561-1015	S.A	S	N	150W	200	100	100	30 A	2 m	50	15	60	15A	40				1.5		500		3	
1561-1015	S.A	S	N	150W	200	120		30 A	2 m	50	15	60	15A	40		+		1.5		500		3	
1561-1415	-	S	N	150W	200	140	140	30 A	2 m	50	15	60	15A	40		\vdash		1.5		500	1	3	
1561-1615	-	S	N	150W	200	160	160	30 A	2 m	50	15	60	15A	40				1.5		500	1	3	
2N3722	S.A	S	N	150W	200	100	60	20 A	5 m	60	15	60	15A	40				1.5		600		3	
1561-0410	S.A	-	N	150W	200	50	40	20 A	5 m	40	15	60	15A	40				1.5		600		3	
1561-0610	S.A	-	N	150W	200	70	60	20 A	5 m	60	15	60	15A	40		\top		1.5		600	П	3	
1561-0810	S.A	-	N	150W	200	90	80	20 A	5 m	80	15	60	15A	40		\top		1.5		600		3	
1561-1010	S.A	-	N	150 W	200	110	100	20 A	5 m	100	15	60	15A	40				1.5		600		3	
1561-1210	S.A	-	N	150W	200	130	120	20 A	5 m	120	15	60	15A	40				1.5		600		3	
1561-1410	S.A	-	-	150W	200	150	140	20 A	5 m	140	15	60	15A	40				1.5		600		3	
1561-1610	S.A	-		150W	200	170	160	20 A	5 m	160	15	60	15A	40				1.5		600		3	
2N3773	S.A	S		150 W	200	160	140	16A	5 m	140	15	60	8 A	40				1.5		600		3	
1561-0408	S.A	-	-	150 W	200	50	40	20 A	5 m	40	15	60	8A	40				1.5		600		3	
1561-0608	S.A	-	+	150W	200	70	60	20 A	5 m	60	15	60	8 A	40				1.5		600		3	
1561-0808	S.A	S	N	150 W	200	90	80	20 A	5 m	80	15	60	8A	40				1.5		600		3	
1561-1008	S.A	S	N	150 W	200	110	100	20 A	5 m	100	15	60	8A	40				1.5		600		3	
1561-1208	S.A	S	N	150 W	200	130	120	20 A	5 m	120	15	60	8A	40				1.5		600		3	
1561-1608	S.A	S	N	150W	200	170	160	20 A	5 m	160	15	60	8A	40				1.5		600		3	
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	E.T.C	NOTE
1723-0805	2SD113Y					2SD232			_
1723-0803	2SD113Y					2SD232		1.	1
1723-1005	200110					2SD232			
1723-1010						2SD232			
1723-1205						2SC1301			
1723-1210						2SC1301			+
1723-1405						2SC1301			+
1723-1410						2SC1301			+
1723-1410						2SC 30			
1723-1603				-		2SC1301			+
1723-1805						2SC1301			+
1723-1805						2SC1301			+
2N3711	2SD114Y					2001001			
1561-0615	2SD114Y						1	+	+
1561-0815	2SD1141 2SD113Y						~	 	+
1561-1015	2SD1131 2SD113Y	2SD179					-	 	+
1561-1015	2301131	2SD179 2SD179					-	 	+
1561 - 1215	- F	2SD179 2SD179					-	 	+
1561-1415		2SD179 2SD179					-	 	+
	0001137	250179							+
2N3722	2SD113Y 2SD114Y						-		-
1561-0410	2SD114Y				_			-	
1561-0610	2SD1141 2SD113Y						1000	-	-
1561-0810	2501131	000170							
1561-1010		2SD179				•			
1561-1210		2SD179		-					
1561-1410		2SD179							-
		2SD179						1	-
2N3773	-05								_
1561-0408	2SD114Y								-
1561-0608	2SD114Y								-
1561-0808	2SD113Y								-
1561-1008		2SD179				2SC1301			-
1561-1208		2SD179				2SC1301			-
1561-1608		2SD179				2SC1301	N.		
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AEG-TELEFUNKEN

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The same	1	¥	Ě		XIMUM	KA	TINGS	-		ELECTRICAL CHARACTERISTICS										OUTLINE			
TYPE	USE	MATERI	POLALITY	Pc 25°C	Tj	Vas	V 080	lc	10	_		hre		hfe	hie (Q)	hre	hoe (μδ)	*fae **fap	NF (P)		Coxrbb	10-	NOT
		_		(mW)	(2)	(V)	(¥)	(mA)	(μA)	V08(V)	min.	max.	ic(mA)		(2)	(×10)	(μ0)	(MHz)	(dB)	(pF)	(ps)	ON	
C116	AF	G	P	145	90	30	18	200	4.5	6	55	140	4							21	_	DIN 1883	
AC117	AF	G	Р	260	90	32	18	1 A	6	6	40	110	300					10				DIN 1883	
AC122	AF	G	Р	130	90	30	18	200	8	6	40	300	2					15		21		DIN 1883	
AC122-30	AF	G	P	130	90	45	32	200	8	6	40	300	2					15		21		DIN 1893 DIN	
AC123	AF	G	P	145	90	45	32	200	8	6	55	140	4							2		DIN 1883	
AC124	AF	G	Р	260	90	45	32	I A	18	6	40	170	300			-		- 11				DIN 1883	
AC131	AF	G	Р	215	90	30	18	I A	18	6	40	120	300									DIN 1883	
AC131-30	AF	G	Р	215	90	45	32	1 A	18	6	40	120	300									DIN 1883	
AC150	AF	G	P	60	75	30	18	50	8	6	180	300	2	100	2 K	5.5	52		5	21		DIN 18B3 DIN	
AC170	AF	G	Р	90	90	32	32	200	10	10	50	125	2		2.5K	5.5	65	1.2	5	21		DIN 1883	
AC171	AF	G	Р	90	90	32	32	200	10	10	65	180	2	130	4 K	6	83	1.7	5	21	_	DIN 18B3	
AC175	AF	G	N	260	90	25	18	1 A	13	15	60	165	50									DIN 18B3	
AC178	AF	G	Р	180	90	20	15	700	6	6	60	185	50								ļ	DIN 18B3	
AC179	AF	G	N	180	90	20	15	700	10	6	60	185	50			<u> </u>		\vdash				DIN 1883 DIN	
AC 186	AF	G	N	215	90	30	18	700	13	15	60	400	50			Щ						DIN 1883	
AC187K	AF	G	N	I W	90	25	15	I A	7	10	100	500	300					5		100		DIN 1883	
AC188K	AF	G	Р	ΙW	90	25	15	I A	5	10	100	500	300					1.5		100		DIN 18B3	
		_	<u> </u>							L.						ļ		\sqcup			<u> </u>		
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		ļ	<u> </u>															L					
AD149	P	G	Р	27.5W	100	50	30	3.5A	1 m	32	30	100	1 A					0.3		220		3	
AD150	P	G	Р	27.5W	100	32	30	3.5A	1 m	32	50	100	ΙA					0.45				3	
AD152	P	G	P	6 W	90	45	23	ΙA	20	6	35	160	500									SOT 9	
AD155	Р	G	P	6 W	90	25	15	1 A	20	6	35	115	500									90T	
AD161	P	G	N	4 W	90	32	20	ΙA	50	20	80	320	500									SOT 9	
AD 162	Р	G	Р	6 W	90	32	20	ΙA	40	20	80	320	500									SOT 9	
AD164	Р	G	Р	6 W	90	25	20	i A	20	6	60	185	500									90T 9	
AD165	Р	G	N	5.3W	90	25	20	ΙA	15	6	60	185	500									SOT 9	
101																							
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AF 106	HF	G	Р	60	90	25	18	10	0.5	12	25	50	_	30				200			6	72	
AF 109R	HF	G	P	60	90	20	15	01	0.5	20	55		2					270				72	
AF 121	HF	G	P	67	75	25	25	10	1.2	10													
AF 134	HF	G	Р	60	75	25	18		2.5	6	110		- 1	110				55			25		
AF 135	HF	G		60	75	25	18		3	6	100		ī					50			25	DIN 18	
AF136	HF	G	Р	60	75	25			3	6	80		I					40			25	DIN 18	
AF137	HF	G	P	60	75	25			3	6	60		1					35			25	DIN 18	
AF 138	HF	G	-	60	75	25			1.5	6	60	100	- 1					40			25	DIN 18	
AF139	HF	Ğ	-	60	90	20	15	10	0.5	20	10	55	2					550			3	72	
AF 239	HF	G	Р	60	90		15	10	0.5	20	10	33	2				_	650				72	
AF 239S	HF	G	P	60	90		15	10	<u> </u>		10	50	2	_		+		780				72	
AF 256	HF	G	P	90	90	25	18	10	0.5	12	10	28	1					330			12	90T 25	
AF 279	HF	G	P	60	90	23	15	10	0.5		10	50	2			-		780			12	50	
AF 280	HF	G	P	60	90		15	10			10	25	2					550			_	50	
AT COU	II HE	10	12	L 60	9⊌		10	10	1		10	23				1		1 220				30	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
ACI16	2SB63	2SB105		2SB135			2SB52-		1
ACII7 .				2SB356				-	
AC122				2SB135					
AC122-30		2SB108A							
AC123		2SB108A							
AC124				2SB458A					
AC131	2SB415			2SB458A					
AC131-30				2SB458A					
AC150	2SB439			2SB134		`			
AC170	2SB461			2SB453	2SB371				
AC171				2SB135					
AC175	2SC513			2SC775		2SC224			
AC178	2SB415			2SB494					
AC179	2SC992								1
AC186	2SC992								
AC187K	2SC513	+	2SC315		+		-	<u> </u>	
AC188K	200313	 	200313	2SB458	 			2SB373	
701001				230430	+ -			230313	
									+
							 	1	
					1			1	+
								-	
								_	1
									-
40140	200424	0000404	2SB361					2SB509	
AD149	2SB424	2SB248A	2SB361 2SB361				_	2SB509	-
AD150	2SB426	2SB248	258361	200504				238509	
AD152	2SB462			2SB524				200.40-	-
AD155	2SB463				2SB493			2SB492	
AD161	2SC525	2SC637				2SC541		ļ	
AD 162	2SB463				2SB481				
AD164	2SB463			,	2SB481	_			- 4
AD165		2SC637		2SC699		2SC541			
						-			
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AF 106	2SA495		2SA373A	*	2SA447				
AF 109R	2SA518		2SA373A		2SA447				
AF 121	2SA500		20,,0,0,,	5	2SA447			1	
AF 134	2SA594	<u> </u>			25447	2SA524		1	
AF 135	2SA594		 			2SA524	1	1	
AF136	2SA495	 	 				1	1	
AF136	2SA495 2SA495		 			_		+	
AF137	2SA495 2SA495		 					+	+
	20M490	25 4 404	-	-	2SA310	2SA524	 	 	+
AF 239		2SA404	-				-	+	+
n = 270					2SA310	2SA524	-	+	+
					2SA310	2SA524		1	
AF239S									
AF239S AF256					2SA310				-
AF 239S					2SA310 2SA310 2SA310		-		

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		7	<u>≻</u>	МА	XIMUM	RA	TINGS						ELE	CTRICAL	CHARA	CTERIS	STICS					OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25℃	Tj (m)	Vos	V _{OED}	lc	la	_		hre		hfe	hie (Q)	hre (×10)	hoe	ft *fae **fap	NF	Cob	Coxitob	TO.	NOTE
		-	_	(mW)	(2)	(V)	(V)	(mA)	(µA)	V08(V)	min.	max.	ic(mA)		(12)	(X 10)	(µō)	(MHz)	(dB)	(pF)	(ps)	18	-
BC107A	AF	S	N	300	175	50	45	100	15	20	125	260	2				•	300	10	2.5	-	18	- 1
BC107B	AF	S	N	300	175	50	45	100	15	20	240	500	2					300	10	2.5	-	18	_
BC108A	AF	S	N	300	175	30	20	100	15	20	125	260	2					300 300	10	2.5	├	18	
BC108B	AF	S	N	300	175	30	20	100	15	20	240	500	2					300	10	2.5		18	
BC108C	-	S	N	300	175	30	20	100	15	20	450 240	900	2					300	10	_		18	
BC109B BC109C	AF	S	N	300	175	30	20	100	15 15	20	450	500 900	2					300	10	2.5		18	
BC110	AF	S	N	300	175 175	80	80	50	100n	80	30	90	2					100	10	5	-	18	
BC129A	AF	S	N	135	175	50	45	100	15	20	30	180	2	125	2.7	1.5	18	300	3	4.5		18	
BC 129B	AF	S	N	135	175	50	45	100	15	20		290	2	240	4.5	2	30	300	3	4.5	\vdash	18	
BC129B	AF	S	N	135	175	30	20	100	15	20	-	180	2	125	2.7	1.5	18	300	3	4.5		18	
BC130B	AF	S	N	135	175	30	20	100	15	20		290	2.	240	4.5	2	30	300	3	4.5		18	
BC130C	AF	S	N	135	175	30	20	100	15	20		520	2	450	8.7	3	60	300	3	4.5		18	
BC131B	AF	S	N	135	175	30	20	100	15	20		290	2	240	4.5	2	30	300	4	4.5		18	
BC131C	AF	S	N	135	175	30	20	100	15	20		520	2	450	8.7	3	60	300	4	4.5	+-	18	
BC140	AF	S	N	650	175	30	40	IA	'3		40	250	100	750	0.7	-	00	50	٠,			39	
BC141	AF	S	N	650	175		60	IA		-	40	250	100			H		50	10			39	
BC147A	AF	S	N	300	175	50	45	100	5	20	125	260	2			\vdash		300	10	2.5		SOT 25	
BC147B	AF	S	N	300	175	50	45	100	5	20	240	500	2			H		300	10	2.5		25 SOT 25	
BC148A	AF	S	N	300	175	30	20	100	5	20	125	260	2			\vdash		300			\vdash	25 SQT 25	
BC148B	AF	S	N	300	175	30	20	100	5	20	240	500	2			-		300				SOT 25	
3C148C	AF	S	N	300	175	30	20	100	5	20	450	900	2					300		-		90T 25	
BC149B	AF	S	N	300	175	30	20	100	5	20	240	500	2			-		300				25 SOT 25	
3C149C	AF	s	'n	300	175	30	20	100	5	20	450	900	2			-		300				90T 25	
BC155	AF	S	N	105	125	5	5	50	100n	5	85	900	0.5					50				TOM 13	
BC155	AF	s	N	50	125	5	5	50	100n	5	85	900	0.5			Н		50				TOM	
BC160	AF	S	P	650	175	<u> </u>	40	i A	10011		40	250	100			Н		50				39	
BC161	AF	s	P	650	175		60	IA			40	250	100					50				39	
BC167	AF	s	N	300	150	50	45	100	5	20	180	290	2					300				92	
3C168	AF	s	_	300	150	30	20	100	5	20	180	520	2					300				92	
BC169	AF	S	N	300	150	30	20	100	5	20	290	520	2					300				92	,
BC177V1	AF	s	P	300	175	50	45	100	10	20	75	150	2	75	1.4	2.5	20	130	10	4.5		18	
BC177A	AF	s	P	300	175	50	45	100	10	20	125	260	2	125	2.7	3	25	130	10	4.5		18	
BC177B	AF	S	P	300	175	50	45	100	10	20	240	500	2	240	4.5	3.5	35	130	10	4.5		18	
BC178V	AF	S	-	300	175	30	25	100	10	20	75	150	2	75	1.4	25	20	130	10	4.5		18	
BC178A	AF	S	P	300	175	30	25	100	10	20	125	260	2	125	2.7	3	25	130	10	4.5		18	
BC178B	AF	s	P	300	175	30	25	100	10	20	240	500	2	240	4.5	3.5	35	130	10	4.5		18	
BC178C	AF	S	-	300	175	30	25	100	10	20	450	900	2	450	8.7	4	45	130	10	4.5		18	
BC179A	Ar	S	P	300	175	25	20	100	10	20	125	260	2	125	1.4	3	25	130	10	4.5	 	18	
BC179B	AF	s	-	300	175	25	20	100	10	20	240	500	2	240	2.7	3.5	35	130	10	4.5		18	
BC179C	AF	S	-	300	175	25	20	100	10	20	450	900	2	450	4.5	4	45	130	10	4.5		18	
BC182A	AF	s		300	150	60	50	200	15n	50	125	260	2	260		Н		150	10	5		92	
BC182B	AF	s	-	300	150	60	50	200	15n	50	240	500	2	500		\vdash		150	10	5		92	
3C194	1	s	+	105	125	40	25	800	100n	30	40	250	10					100		8	<u> </u>	TOM 13	
3C196V1	AF	S	_	50	125	30	25	100	50n	20		140	2	75		П		150	10	4		TOM 23	
3C196A	AF	s	-	50	125	30	25	100	50n	20		180	2	125		П		200	10	4		T 0M 23	
3C196B	AF	S	_	50	125	30	25	100	50n	20		290	2	240				250	10	4		T OM. 23	
3C197	AF	S	_	135	175	50	45	100	5	20		180	2	250	2.7	1.5	30	300	10		1	TOM 23	
BC198A	AF	s	-	135	175	30	20	100	5	20		180	2	220	2.7	1.5	18	300	10	4.5		T 0 M 23	
BC 198B	AF	s	-	135	175	30	20	100	5	20		290	2	330	4.5	2	30	300	10	4.5		TOM 23	
BC198C	AF	S	+	135	175	30	20	100	5	20		520	2	600	8.7	3	60	300	10	4.5		T O M 23	
BC199	AF	s		135	175	30	20	100	5	20	290	520	2	330	4.5	2	30	300	10	4.5		TOM 23	
BC212	AF	S		300	150	60	50	200	15n	30	60	300	2	300				200	10	5		92	
BC237A	AF	s	_	300	150	50	45	100	5	20	125	260	2	220	2.7	1.5	18	300	10	4.5		92	
BC237B	AF	s	N	300	150	50	45	100	5	20	240	500	2	330	4.5	2	30	300	10	4.5		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	E.T.C	SANYO	NOTE
BC107A	2SC980		2SC152	2SC302	2SC478				
BC107B	2SC980		2SC152	2SC302	2SC478				
BC108A	2SC733			2SC301		2SC 565		2SC427	
BC108B	2SC733			2SC301		2SC565		2SC427	
BC108C	2SC733			2SC301		2SC565		2SC427	
BC109B				2SC301				2SC427	
BC109C				2SC301				2SC427	-
BC110						2SC205			-
BC129A	2SC734			2SC714					_
BC129B	2SC734			2SC714	_	200005			
BC130A	2SC1000	2SC651		2SC712		2SC965 2SC965			
BC130B	2SC1000	2SC651		280712		2SC965			+
BC130C	2SC1000	2SC651		2SC712	-				+
BC131B	2SC1000	2SC651		2SC712		2SC965 2SC965			+
BC131C	2SC1000	2SC651	000700	2SC712		230365			+ -
BC140	2SC486		2SC708				-		+
BC141	2SC486		2SC708A	200714		_			_
BC147A	2SC1000			2SC714					+
BC147B	2SC1000	200551		2SC714		2SC965			+
BC148A	2SC1000	2SC651		280712		2SC965			+
BC148B	2SC1000	2SC651		2SC712		2SC965			+
BC148C	2SC1000	2SC651		2SC712		2SC965 2SC965			
BC149B	2SC1000	2SC651 2SC651	<u> </u>	2SC712		2SC965	(沖)		+
BC149C	2SC1000	250651		2SC712		230303	2SC1288		+
BC155							2SC1288		+
BC 156		004571		OCD4F0A		-	2301200	-	
BC160 BC161		2SA571 2SA571		2SB458A 2SB458B					
BC167		25A5/1	2SC317	2364566			<u> </u>		+
BC168			230317	2SC619		2SC238	-		
				2SC619	<u> </u>	2SC238			
BC169		2SA710	-	2SA697		250250			1
BC177A	_	2SA710		2SA697					
BC177B		2SA710		2SA697	-				
BC178V1	2SA402	2SA710		2SA696	•	-0.7	100	111	1
BC1784	2SA402 2SA402	2SA710	 	2SA696			Section 1		-
BC178B	2SA402 2SA402	2SA710		2SA696					
BC178C	2SA402	2SA710		2SA696					
BC178C	2SA402 2SA402	2SA710	2SA373A	2SA695					
BC179B	2SA402 2SA402	2SA710	2SA373A	2SA695					
BC179C	2SA402 2SA402	2SA710	2SA373A	2SA695			(JRC)		
BC182A	20.1402	2SC853	2SC479	2SC307			2SC952	-	
BC 182B		2S C853	2SC479	2SC307			2SC952		
BC194	2SC468			2SC303					
BC196V1	223700			2SA375	2SA564A			2SA608	1
BC196A				2SA375	2SA564A			2SA608	
BC196B				2SA375	2SA564A			2SA608	1000
BC197	2SC980			2SC302					
BC198A	2SC1000			2SC302					
BC198B	2SC1000			2SC302					, A ₁
BC198C	2SC1000		T	2SC302	1				134
BC199	2SC1000			2SC302					14
BC212		2SA544		2SA 697					1
BC237A	2SC734			2SC7I4					10
BC237B	2SC734			2SC714					

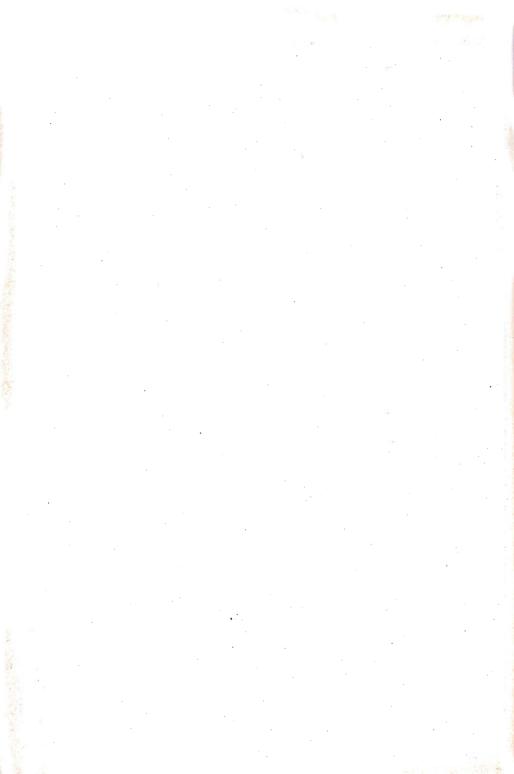
AEG-TELEFUNKEN

		ږ	>	MA	MUMIX	RA	TINGS						ELE	CTRICAL	L CHARA	CTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Va	V ₀₈₀	lc	lo			hfE	5	hfe	hie	hre	hoe	fī *fae *#faD	NF	Cob	Coxitab'	OUTLINE TO-	NOT
				(mW)	(2)	(A)	(V)	(mA)	(μ A)	Vos(V)	min.	max.	Ic(mA)		(Ω)	(×10)	(µ0)	(MHz)	(dB)	(pF)	(ps)		
BC238	AF	S	N	300	150	30	20	100	5	20	180	520	2	330	4.5	2	_ 30	300	4	2.5		92	
BC239	AF	S	N	300	150	30	20	100	5	20	290	520	2	330	4.5	2	30	300	4	2.5		92	
BC307	AF	S	P	300	150	50	45	100	10	20	140	290	2	330	4.5	3	35	130	4	2.5		92	
BC308	AF	S	P	300	150	30	25	100	10	20	140	520	2	330	4.5	3	35	130	4	2.5		92	
BC309	AF	S	Р	300	150	25	20	100	10	20	180	520	2	330	4.5	3	35	130	4	2.5		92	
BC327	AF	S	Р	500	150		45	500			63	630	100	<u> </u>				100		12		92	
BC328	AF	S	Р	500	150		25	500			63	630	100					100		12		92	
BC337	AF	S	N	500	150	ļ	45	500			63	630	100					100		12	_	92	
BC338	AF	S	N	500	150		25	500			63	630	100			<u> </u>		100		12		92	
BC413	AF	S	N	300	150	45	30	100	15n	30	180	800	2	600	8.7K	3	60	250	3	2.5		92	lownois
BC414	AF	S	N	300	150	50	45	100	15n	30	180	800	2	600	8.7K	3	60	250	3	2.5		92	
BC415	AF	S	Р	300	150	45	35	100	15n	30	120	800	2	330	8 K	3.5	70	200	2	4.5		92	
BD416	AF	S	Р	300	150	50	45	100	15n	30	120	800	2	330	8 K	3.5	70	200	2	4.5		92	
BD127	P	s	N	17.5W	150	300	250	500	50n	150	30		50									126	
BD128	P P	S	N	17.5W	150	350	300	500	50n	150	30		50		-	-						126	
BD129	P	S	N	17.5W	150	400	350	500	50n	150	30	<u> </u>	50									126	
BD125	AF	S	N	17.5W	150	45	45	1 A	100n	30	45	250	150	250				50				126	_
BD136	AF	S	P	3 W	150	45	45	IA	100n	30	40	250	150	250				50				126	
BD137	AF	S	N	I W	150	60	60	I A	100n	30	40	160	150	160	-			50				126	_
BD137	AF	S	P	IW	150	60		I A	100n	30		180	150	160								126	
BD139	-	S	N	1 W			60 80				40							50				126	-
	AF AF	S	P		150	80	_	I A	100n 100n	30		160	150	160				50					_
BD140 BD165	AF	S	N	1 W	150	80	80	I A		30	40	180				\vdash		50 3		_		126	_
	_	_	P	$\overline{}$	150	45	45	1.5A	100	45 45	40		150	_		\vdash		3		_		126	
BD166 BD167	AF	S	N	20W	150	45	45 60	1.5A	100	60	40		150			\vdash		3		-		126	
BD168	AF	S	P	20W		_	60	1.5A	100	60	40		150	_	-	-		3				165	
BD169	AF	S	N	20W	150	60 80	80	1.5A	100				150	-				3				165	
BD170	AF	S	P	20W	150	_	80		100	80 80	40									_			
BD213-45	P	_	N	$\overline{}$		80		1.5A		-	40		150			\vdash		3			-	165	
	P	S	N	90W	150	45	45	15A	500	45	40		1.5A					. 3					
BD213-60	P	S	N	90W	150	60	60	15A	500	60	40		1.5A	ļ				3			ļ		-
BD213-80	_	S	ļ		150	80	80	15A	500	80	40		1.5A					3					
BD214-45	P	S	P	90 W	150	45	45	15A	500	45	40		1.5A					3					
BD214-60		S	_	90W	150	60	60	15A	500	60	40		1.5A					3					
BD214-80	P	S	P	90W	150	80	80	15A	500	80	40		1.5A					3					
BD233	Р	S	N	25 W	150	45	45	2 A	100	45	40		150					3				126	
BD234	P	S	P	25W	150	45	45	2 A	100	45	40		150					3				126	
BD235	Р	S	N	25 W	150	60	60	2 A	100	60	40		150		-			3				126	
BD236	P	S	P	25W	150	60	60	2 A	100	60	40		-1.50	ļ	-			3		L		126	_
BD237	P	S	N	25 W	150	80	80	2 A	100	80	40		150			ļ		3			ļ	126	
BD238	P	S	P	25 W	150	80	80	2 A	100	80	40		150	ļ				3			L.,	126	
BD585	Р	S	N	42W	150	45	45	4 A	100	45	40		500	L				3			<u></u>	126	
BD586	Р	S	P	42W	150	45	45	4 A	100	45	40		500	<u> </u>	<u></u>			3				126	
BD587 BD588	P	S	N P	42W	150 150	60 60	60 60	4 A	100	60 60	40 40		500 500					3				126	
BD589	P	S	N	42 W	150	80	80	4 A	100	80	30		500				_	3			\vdash	126	
BD590	P	S	P	42 W	_	80	80	4 A.	100	80	30		500					3	_			126	
BD590	P			42 W	150				100													126	
	ļ	S	N		150	45	45	8 A		45	40	_	I A		ļ			3					
BD596	P	S	P	55 W	150	45	45	8 A	100	45	40		I A	_		\vdash		3					
BD597	P	S	N	55 W	150	60	60	8 A	100	60	40		i A					3			Щ.		
BD598	P	S	P	55W	150	60	60	8 A	100	60	40		IA			<u> </u>		3			.>		
BD599	Р	S	N	55W	150	80	80	8 A	100	80	30		I A	L				3					
BD600	IР	S	ΙP	55 W	150	80	80	8 A	100	80	30		ΙA		I	1		3					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC238	_				2SC619				
BC239				. ,	2SC619	-			
BC307	2SA522A	2SA710	2SA548						
BC308	2S A 522 A	2SA710							
BC309	2SA402	2SA710							
BC327		_			2SA731				1
BC328				2SA695	2SA730				T
BC337	2SC495		2SC1214			2SC968			
BC338	2SC509		2SC1214			2SC967			T
BC413		2SC1330		2SC1313					
BC414		2SC1330		2SC1313					Sec. 1
BC415	2SA561			2SA726	2SA550 A		2SA705		
B 416	2SA561			2SA726			2SA705		
		-	-						
BD127	2S C 782		-			2SC825			+
BD127	230102		2SC833		+	20000	2S C 867		+
BD128		-	2SC833				2SC867		1
BD135		-	200003	2SC816			222007		+
BC136		2SA715		230810	2SA752		2SA706		+
BD137	2SC513	25A713	2SC708	2SC816	2011702	2SC1052	2011100		+
BD138	230313	2SA715	230708	230010	2SA752	2301032	2SA762		+-
BD136	2SC512	23A713	2SC708A	2SC776	251132	2SC1069	2SC1124		+
BD139	250512		23C/06A	230776		2301003	2SA762		
				2SC737		_	ZGATOZ		-
BD165	2SA490		2SA670	230737		-			100
BD166	25A490		23A670	2SC737		2S C865			1
BD167	20.4740	00.4.0.0		250/3/		230003	10 S 10		-
BD 168	2S A 740	2SA616		2SC766					_
BD169	2SC779	00.4616		230760	-		-	-	+
BDI70	2SA740	2SA616				200 221			_
BD213-45	2SD114					2SD231	2SD339		
BD213-60	2SD114		2SD341			2SD232			
BD213-80	2SD113	2SD181	2SD341			2SD232	2SD 339		
BD214-45			2SB332	2SB 478			*****		_
BD214-60			2SB332	2SB478			2SB519		
BD214-80			2SB333	2SB479			2SB519		
BD233		2SC290			2SC646				911
BD234	2SB434				2SB513		,	2SB216	1
BD235		2SC290			2SC646	•			
BD236					2SB 513			2SB215	- 2.5
BD237			2SC679					-	
BD238							<u> </u>		
BD585	2SC521A	2SC244			1		1	-	
BD586		2SB251A			2SB129			_	
BD587	2SC520	2SC244			2SC647				
BD588		2SB251A	2SB228		2SB129	2SB151			
BD589	2SC520	2SC245	2SC664		2SC647			ļ	
BD590		2SB253	2SB228		2SB129	2SB151			
BD595	2SD111	.)	2SD124 A					-	TEALD
BD596	2SB531								1 3/9
BD597	2SD111		2SD124 A					1	45.5
BD598	2SB531							10	S SPA
BD599	2SD111			2SC 889		2SC902		378	
BD600	2SB531	,	_						
									4

	1			_			, ,							_			± • VC	,					
		¥	7		XIMUM	1 RA	TINGS						ELE	CTRICAL	L CHAR	ACTER	STICS		,			OUTLINE	
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj (T)	Vos	V œ	ic	l '	090		hre		hfe	hie (a)	hre	hoe	#fae ##fap	NF	Cob	Coxido	TO-	NOTE
DDCTE	<u> </u>	_	_	(m₩)		(4)		(mA)	(μA)	V08(V)	min.	max.	Ic(mA)		(ℚ)	(×10)	(µ0)	(MHz)	(d8)	(pF)	(ps)	507	-
BD675	P	S	N	40W	150	-	45	4 A			50		2 A								<u> </u>	30T 32	
BD676	_	S	Р	40 W	150	-	45	4 A		ļ	50	ļ	2 A			<u> </u>				<u> </u>	<u> </u>	SOT 32	
BD677	P	S	N	40 W	150		60	4 A			50	ļ .	2 A		ļ	<u> </u>			ļ			SOT 32	
BD678	P	S	Р	40 W	150	<u> </u>	60	4 A	-	ļ	50		2 A			1		I			<u> </u>	SOT 32	
BD679	P	S	N	40 W	150	<u> </u>	80	4 A		ļ	50		1.5A			_		- 1				SOT 32	
BD680	Р	S	Р	40 W	150		80	4 A			50		1.5A					1				SOT 32	
BD695	P	S	N	70 W	150	-	45	5 A			250		4 A					1			<u> </u>	T OP 66	
BD696	P	S	Р	70 W	150	ļ	45	5 A			250		4 A					1	ļ			1 OP 66	
BD697	Р	S	N	70W	150	ļ	60	5 A		ļ	250		4 A		<u> </u>			- 1			<u> </u>	10P 66	
BD698	P	S	Р	70 W	150	_	60	5 A	_	_	250		4 A					I.				TOP 66	
BD699	Р	S	N	70 W	150		80	5 A		1	250		3 A					- 1				T OP 66	
BD700	Р	S	Р	70 W	150	ļ	80	5 A			250	L	3 A						<u> </u>			T OP 66	
BD701	Р	S	N	70 W	150		100	5 A		_	250		3 A								_	T 0P 66	
BD702	Р	S	Р	70 W	150		100	5 A			250		3 A									T OP 66	
		<u> </u>			ļ	_				_	_	<u> </u>									<u> </u>		
BF115	HF	S	N	145	175	50	30	30	0.5	20	40	<u> </u>	20		L	<u> </u>		23 0	1.5	0.8		72	
BF 167	HF	S	N	130	175	40	30	25			27	57	4		_	L.		350	3	1.5		72	
BF 173	HF	S	N	200	175	40	25	25			38	90	7	L				550		2.3		72	
BF 177	HF	S	N	600	200	L	100	50			20		30					120	<u> </u>	1 .8	25	5	TV
BF 178	HF	S	N	600	200	ļ	185	50		_	20		30					120		1 .8	25	5	ΤV
BF179A	HF	S	N	600	200	<u> </u>	185	50			20		20					120		1 .8	25	5	ΤV
BF179B	HF	S	N	600	200		220	50			20		20					120		1 .8	25	5	TV
BF179C	HF	S	N	600	200		250	50			20		20				· ·	120		1.8	25	5	TV
BF 184	HF	S	N	145	175	30	20	30			67	220	- 1					260		3.5		72	
BF 185	HF	S	N	145	175	30	20	30			36	125	- 1					200				72	
BF 194	HF	S	N	300	150	30	20	30			67	220	1					260				SOT 25	•
BF 254	HF	S	N	300	150	30	20	30			67	220	J					260				92	
BF 195	HF	S	N	300	150	30	20	30			36	125	- 1					200				SOT 25	
BF 255	HF	S	N	300	150	30	20	30			36	125	1					200				92	
BF 196	HF	S	N	300	150	40	30	25			27	80	4					400	3			SOT 25	TV
BF 198	HF	S	N	300	150	40	30	25			27	80	4					400	3			92	ΤV
BF 197	HF	S	N	300	150	40	25	25			38	88	7					550				SOT 25	TV
BF199	HF	S	N	300	150	40_	25	25			38	88	7					550				92	ΤV
BF223	HF	S	N	360	150	35	25	40	50n	20	40	79	15					750				901 25	
BF311	HF	S	Z	360	150	35	25	40	50n	20	40	79	15					750				92	
BF227	HF.	S	N	50	125	40	25	25			30	100	3					600				70M 23	
BF 228	HF	S	Ν	50	125	100	90	50	I00n	75	30		2					50				TOM 23	
BF229	HF	S	Z	50	125	30	20	30			67	220	ı					260				TOM 23	
BF230	HF	S	N	50	125	30	20	30			36	125	<u>, l</u>					200				T OM. 23	
BF 240	HF	S	7	300	150	40	40	25	100n	20	67	220	Ī					430				92	
BF241	HF	S	N	300	150	40	40	25	100n	20	36	125	1					400				92	
BF257	HF	S	N	5 W	175	160	160	100	50n	100	25		30					90				39	TV
BF 258	HF	S	N	5W	175	250	250	100	50n	200	25		30					90				39	ΤV
BF 259	HF	S	Ν	5W	175	300	300	100	50n	250	25		30					90				39	ΤV
BF310	HF	S	N	300	150	30	30	25	60n	20	29		4					580				92	
BF314	HF	S	N	300	150	30	30	25	60n	20,	29		4					450				92	
BF377	HF	S	N	300	150	30	15	25	I On	15	25	90	2					(GHZ)				92 -	特 🗓
BF378	HF	S	N	300	150	30	15	25	10n	15	25	90	2					(GHZ)				92 -	特息
BF 379	HF	S	Р	300	150	40	25	25	50n	20	80		ī					350			\neg	92	
BF414	HF	S	Р	300	150	40	30	25	60n	20	30	80	1					400			\neg	92	
BF440	HF	S	Р	300	150	40	40	25	t00n	20	60	220	1					250		\neg	$\neg \uparrow$	92	
BF441	HF	S	Р	300	150	40	40	25	100n	20	30	125	ŀ					250		- 10	\dashv	92	
BU105		S	N	10W	115	750	750	2.5A								\Box		7.5				3	
D0103																							
BU108		S	N	12.5W	115	1500	750	5 A				_						7			\neg	3	

TYPE	TOSHIBA	NEC	нітасні	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANKEN	NOTE
BD675	2SD371		2SD124	2SD26A		_			
BD676								2SA764	+
BD677	2SD371		2SD124	2SD26A		<u> </u>	2SD47		
BD678	2\$A658	2SA626	2SB36I	2SB358				2SA764	
BD679	2SD371	2SD180		2SD26B	,		2SD47		
BD680	2SB531	2SA626	2SB361	2SB358		2SB432			
BD695	-	2SC851		2SC1020					
BD696			2SB332			2SB352			
BD697	2SD111		-	2SC1020			2SD88		
BD698							2SB518 .		
BD699	2SD111	2SD322			2SD334		2SD88		
BD700	2SA680					2SB 353	2SB518	2SA744	
BD701	2SD111	2SD322	2SC898		2SD334	2SC902	2SD88		
BD702	200							2SA745	
00702		_							
BF115	2SC383	2SC1009	2SC907A	+					+
BF 167	2SC383 2SC382	2301003	2SC907A	+	-		+		+
			2SC907A	1			+		+
BF 173	2SC382		230907A				2SC353		+
BF 177	2SC983	_ `			_		230333		+
BF 178	2SC983								+
BF179A	2SC983								
BF I 79B	2SC983 .								+
BF I 79C	2SC983						ļ	_	
BF184		2SC1044				2SC811			
BF185		2SC1044				2SC811			
BF 194		2SC899							
BF254		2SC899							
BF 195		2SC899		2SC710					
BF255		2SC899		2SC710					
BF 196		2SC1187							
BF 198		2SC1187							
BF 197		2SC1187							
BF 199		2SC1187							
BF223					2SC1303				
BF311					2SC1303	-			
BF227									
BF 228									
BF 229		_		_					
BF230			 	+					
		2SC1188	 	 				1	1
BF240				+			1	+	+
BF 241		2SC1188	20.000	-	+			 	+
BF 257	2SC515		2SC685						_
BF258	2SC515		2SC685				+	+	_
BF 259	2SC515	100	2SC685		-		+	+	-
BF310		2SC1188	2SC684				-		-
BF314		2SC1188	2SC684		1				_
BF377			2SC684		2SC583		1.		910
BF378		-	2SC684		2SC583	_			
BF379			2SA548						
BF414			2SA548						
BF440	i —	2SA578							
BF441		2SA578							1
BU105	2SC643		2SC937	2SC1153					
BU108		2SC1358		2SC1309	2SD300				100
20,00			1		-				



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				MA	XIMUM	RA	TINGS		Γ				ELE	CTRICA	L CHAR	ACTERI	STICS						
TYPE	USE	ERIAL	POLALITY	Pc	Tj	Vas	Voso	Ic	lo	RO.	П	hre		hfe	hie	bre	hoe	fr	NF	Cob	Coxitto	OUTLINE	NOTE
1,,,,	USE	MATERI	ᅙ	25℃	(7)	(V)	(V)	(mA)		ν _{αs} (γ)	m in .	max.	Ic(mA)	, ,,,,	(Ω)	(×10)		*1ae **1aD	(dB)	(pF)	(ps)	то.	NOTE
40101	LF	G	P	(mW)		_	_	300	5	¥08\¥/	30	190			\ - /	0.107	,,,,,	(MHz)	4	27	(ps/	 	
AC121 .	LF	G	N	900	90	32	20 32	500	10	_		100	100 500					1.5	10	70			
ACI51r	LF	G	P	900	90	32	24	200	10		50 40	100	200			\vdash		1.5	. 3	25		l I	
AC152	LF	G	P.	900	90	32	24	500		ļ	75	 	100					1.5	. 3	25		<u> </u>	
AC152	LF	G	P.	1 W	90	32	18	2 A	10	10	68	173	IA				-	1.5		100			AC176CONP
ACI53	LF	G	P	1 W	_	32	18	2 A	10	10	68	173	IA.		-		_	_	_	100		К	-
AC162	LF	G	P	900	90	-	24	200	10	10	100	173	50					1.5	4	25	-	- K	口形
AC163	LF	G	P	900	90	32	24	200	10	10	132		50					2.3	4	25		<u> </u>	
AC176	P	G	N	1 W	90	32	18	1 A	7	10	50	250	300					3	-	100		1	AC153CONP
AC176K	P	G	N	i W	90	32	18	I A	7	10	50	250	300					3		100	-	K	口形
AC187K	P	G	N	i w	90	25	15	2 A	7	10	100	500	300		-			5		100		K	口形
AC188K	P	G	Р	1 W	90	25	15	2 A	20	10	100	500	300	<u> </u>		-		1.5		100	-	K	口形
AD 130	S	G	P	30 W	90	32	30	3 A			20	40	IA					35 0 KHZ		200		3	17/12
AD 131	S	G	P	30 W	90	64	45	3 A			20	40	IA		-		<u> </u>	350 KHZ		200		3	-
AD 132	S	G	P	30 W	90	80	60	3 A			20	40	IA					350 KHZ		200	-	3	
AD132	S	G	P	36 W	100	50	20	15A	-		50	100	5 A			\vdash		300 KHZ		1 200	\vdash	41	
AD136	S	G	P	11 W	100	40	20	10 A			75	150	5 A			-		300 KHZ				8	
AD130	P	G	P	13.5W	100	32	26	3.5A	1.2 m	10	50	100	IA		-	\vdash		450 KHZ				۳	-
AD149	P	G	P	27.5W	100	50		3.5A		,,,	50	100	IA		_	\vdash		500 KHZ				3	-
AD150	P	G	P	27.5W	100	32	_	3.5A			50	100	IA			Н		KHZ 450 KHZ		-		3	
ADI6I	P	G	N	4 W	90	32	20	3.3A	20	32	50	350	500	-		\vdash		юнz 3		100		SOT	
ADI 62	P	G	Р	6 W	90	, 35	20	3 A	7	20	175	350	500					1.5		100		SOT	
ADI63	P	G	P	30W	90	100	80	3 A		- 20	30	60	1 A					350 KHZ		200		3	
AFI06	MIX	G	P	60	90	25	18	10	0.5	12	70		2	65				220	5.5	200	6	72	
AFI09R	AGC	G	P	60	90	20	15	10	0.5	20	55	L	2	- 03				110	4	, .	-	72	
AF-139	MIX	G	P	60	90	20	15	10	0.5	20	55		2				-	550	7.5		3	72	
AF200	HF	G	P	225	90	25	25	10	0.5	12	85		3	150		-		-	,.5		6	72	
AF201	HF	G	Р	225	90	25	25	10	0.5	12	85		3	150							6	72	
AF200U	HF	G	Р	60	90	25	25	10	0.5	12	85		3	150							6	72	
AF201U	HF	G	Р	60	90	25	25	10	0.5	12	85		3	150							6	72	
AF 202	HF	G	P	225	90	25	25	30	0.4	12	85		3	150							6	72	
AF202S	HF	G	Р	225	90	32	32	30	0.4	12	85		3	150							6	72	
AF 239	UHF	G	Р	60	90	20	15	10			50		2					700	5			72	
AF239S	osc	G	Р	60	90	20	15	10			50		2					780	5			72	-
AF240	HF	G	Р	60	90	20	15	10			25		2			П		500	6.5			72	-
AF 279	UHF	G	Р	60	90	20	15	10			50		2					780	5			50	
AF280	UHF	G	Р	60	90	20	15	10			25		2					550	7			50	
BC107	AF	S	N	300	175	50	45	200			380	800	2			П		250				18	
BC108	AF	S	N	300	175	30	20	200			380	800	2					250				18	
BC109	AF	S	N	300	175	30	20	50			380	800	2	-				300				18	
BCI10	AF	S	N	300	175	80	80	50	100 n	80	90		2					100	.	5		18	_
BC121	AF	S	N	250	150	5	5	75	I On	2	125	620	10					250	2.5	4.4		U32PI	•
BC122	ΑF	S	Ñ	250	150	30	20	75	I On	15	125	620	10					250	2.5	3.5		U32PI	
BC123	AF	S	N	250	150	45	30	75	I On	25	125	620	10					250	2.5	3.5		U32PI	
BC140	AF	S	N	3.7W	175	80	40	ΙA			63	160	100					50		25		39	
BC141	AF	S	N	3.7W	175	100	60	ΙA			63	160	100					50		25	,	39	_
BC147	AF	S	N	300	175	50	45	200			180	460	2					250					
BC148	AF	S	N	300	175	30	20	200			180	460	2	,				250			- 1		
BC149	AF	S	N	300	175	30	20	50			380	800	2					300					
BC157	AF	S	Р	300	150	50	45	200			170	290	2					130	10	6		SOT 25	
BÇ158	AF	S	Р	300	150	30	25	200			170	500	2					130	10	6		S0T 25	
BC159	AF	S	Р	300	150	25	20	50			170	500	2					130	4	6			-
BC160	AF	S	Р	3.7W	175	40	40	ΙA			63	160	100					50		30	ā	39	
BC161	AF	S	Р	3.7W	175	60	60	1.4			63	160	100					50		30		39	
BC167	AF	S	N	300	150	50	45	200			170	290	2					250	2	45		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISH1	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
AC121	2SA594			,	2SA374				4
AC127	2SC366		2SC1213						
AC151r	2SA594				2SA374				
AC152	2SA504								
AC 153		2SB504		2SB495				,	
AC I53K		2SB504		2SB495	- 21				
AC162		2SB504		2SB495				ļ	
AC163	,	2SB504 3	1	2SB495					
AC176		2SC1266				2SC1069	_		ļ.
ACI76K		2SC1266				2SC1069			
AC187K				2SC778					
AC188K		2SA633			2SA699			200527	
AD 130	2SB503	2SB107A		2SB138	2SB126			2SB507	-
AD131	2SB503				2SB128				
AD 132	2SB502				2SB128			-	
AD133	2SB124								+ -
AD136	2SB296		2SB85 .	1 .	-005			200010	+
AD148	2SB503			-	2SB513			2SB216	+
AD149	2SB503				2SB513			_	<u> </u>
AD150	2SB503				2SB513			,	+
ADI61	2SC490				2SC585	2SC592		_	
ADI62	2SB502		2SB83						_
ADI63	2SB64				-0.1-10			+	
AFI06	2SA494	2SA244			2SA249	2SA113			
AFI09R	2SA495		2S A 84			2SA113		-	+
AF-139	2SA495		2SA84					-	+
AF200	2SA495		2SA86						<u> </u>
AF201	2SA495		2SA86					-	+
AF200U	2SA495		2SA84		2SA100				
AF201U	2SA495		2SA84		2SA100				+
AF202	2SA495	2SA244			20.4.242	204.12			
AF202S	2SA494	2SA244			2SA249	2SA113			+
AF239		2S A244	2SA390		2SA310				
AF239S		2SA244	2SA390	<u> </u>	2SA310	_			
AF240		2SA244	2SA390		2SA310				+
AF279		2SA244	2SA390		2SA310				+
AF280		2SA244	2SA389		2SA310	200505			٠.
BC107	2S C 559			-		2SC565			
BC108	2SC559		200151		0005304	2SC565 2SC565	· -	-	+
BC109		<u> </u>	2SC154	20.0227	2SC538A	230565		-	+
BC110		-		2SC307	-				-
BCi2I	2SC732			280711	+				-
BC122	2SC732			280711					-
BC123	2SC734	-		25C711	-			-	-
BC140	2SC523	+		2SC1018	 				-
BC141	2SC524		 		+		-		+
BC147	2SC503			+	+		-		
BC148	2SC504	+		-	+		-		+
BC149	2SC504		-		+			_	+
BC157	2SA503			-	-			+	+
BC158	2SA504				-				-
BC159	2SA504	-	-		+	200445	-	-	+
BC160	2SB462	<u> </u>		-		2SB445	-		-
BC161	2SB462	1		000000		2SB446	-		-
BC167	2\$B503			2SC871			L		

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TYPE		1	F		XIMUM	, NA	TINGS			_	_		ELE	CTRICAL	. UHARA	CIENI	SHCS					OUTLINE	
1112	USE	MATERIAL	POLALITY	Pc 25°C	Tj (T)	Vos (V)	Voeo (V)	ic (mA)	lα (μA)	90 VOS(V)	min.	hre	(c(mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	fr *fae *=faD	NF (dB)	Cob (pF)	CoXrbb [*] (ps)	TO.	NOT
BC168	AF	S	N	(mW)		117	20	100	(μπ)	¥08(¥7	min. 170	max.	2		(=)	0.107	1,2 37	(MHz) 250		4.5	(92	100
		_			150	• • •						500	_						2		-		A 1/3/
BC169	AF	S	N	300	150	30	20	50			290	500	2			\vdash		300	4	4.5		92	
BC177	AF	S	P	300	175	50	45	100			170	290	2					130	10	4.5		18	
BC178	AF	S	Р	300	175	*30	25	100			170	500	2					130	10	4.5		18	- 11
BC179	AF	S	Р	300	175	* 25	20	50			170	500	2					130	4	4.5		18	71. 0
BC182	AF	S	N	300	150	60	50	200	15 n	50	170	290	2					150	2	2.5	-	92	*
BC201	AF	S	Р	250	150	5	5	75	2 n	2	75	290	0.2					200	2.5	5.4		U32PI	- 124
BC202	AF	S	Р	250	150	30	20	75	2 n	15	75	175	0.2					200	2.5	3.5		U32PI	
BC203	AF	S	Р	250	150	45	30	75	2 n	25	75	175	0.2					200	2.5	3.5		U32PI	
BC212	AF	S	Р	300	150	.60	50	200	15 n	30	170	290	2					200	2	4		92	•
BC237	AF	S	N	300	150	• 50	45	100			170	290	2					250	2	4.5		92	
BC238	AF	S	N	300	150	. 30	20	100			170	500	2					250	2	4.5		92	
BC239	AF	S	N	300	150	30	20	50			170	500	2					300	4	4.5		92	
BC257	AF	S	Р	300	150	*50	45	100			170	290	2					130	10	6		92	
BC258	AF	S	Р	300	150	30	25	100			170	500	2					130	10	6		92	
BC259	AF	S	Р	300	150	• 25	20	50			١70	500	2					130	4	6		92	
BC307 ·	AF	S	Р	300	150		45	100			١70	290	2					130	10	6		92	
BC308	AF	S	Р	.300	150		25	100			170	290	- 2					130	10	6		92	=
BC309	AF	S	Р	300	150		20	50			290	500	2					130	4	6		92	
BC327	AF	S	Р	1.4 W	150		45	800			160	400	100					100		12		30T 30	•
BC328	AF	S	Р	1.4W	150		25	800			160	400	100					001		12		90T 30	•
BC337	AF	S	N	1.4W	150		45	800			100	400	100					100		12		90T 30	
BC338	AF	8	N	1.4W	150		25	800			100	400	100					100		12		SOT 30	•
BC413	AF	S	N	300	150	45	30	100	15 n	30	290	500	2					250	2.5	2.5		92	
BC414	AF	S	N	300	150	50	45	100	15 n	30	290	500	2			1		250	2.5	2.5		92	
BC415	AF	S	Р	300	150	45	35	100	15 n	30	170	500	2					200	2	4.5		92	• lowno
BC416	AF	S	Р	300	150	50	45	100	15 n	30	170	500	2					200	2	4.5		92	• lown
						_					- 1												-
						_																	
BD109	SW	S	N	18.5W	175	60	40	3 A	10n	40	63	160	i A					30		35		90T	
BD130	Р	S	N	100W	200	100	60	15A			20	70	4 A					1.1				3	
BD135	AF	S	N	12.5W	150	45	45	1.5A	100 n	30	63	1.60	500					50				SOT 32	
BD136	AF	S	P	12.5W	150	45	45	1.5A	100 n	30	63	160	500				-	75				32 SOT 32	
BD137	AF	S	N	12.5W	150	60	60	1.5A	100 n	30	63	100	500					50				32 SOT 32	_
BD138	AF	s	P	12.5W	150	60	60	1.5A	100n	30	63	100	500					75				32 SOT 32	
BD139	AF	S	N	12.5W	150	- 00	80	1.5A	100n	30	63	100	500					50				32 SOT 32	
BD140	AF	S	P	12.5W	150		80	1.5A	100n	30	63	100	500	\vdash		\vdash		75				32 SQT 32	
BD140	P	S	N	31 W	200	60	40	4 A	10011	- 30	63	160	500	-				13				32 66	•
BD148	AF	S	N	31 W	200	80	60	4 A	\vdash		63	100	500	\vdash				1				66	:
BD233	P	S	N	25 W	150	45	45	2 A	100	45	40	100	150			\vdash		3		60	-	907 32	÷
BD233	P	S	P	25 W		45	45	2 A	100	45								3	- 1	60			:
					150						40		150									90T 32	$\dot{\cdot}$
BD235	Р	S	N	25W	150	60	60	2 A	100	60	40		150					3		60	-	90T 32	•
BD236	Р	S	P	25 W	150	60	60	2 A	100	100	40		150					3		60	<u> </u>	SOT 32	
BD237	Р	S	N	25W	150	100	80	2 A	100	1.00	40		150					3		60	ļ,	507 32	
BD238	Р	S	Р	25W	150	100	80	<u> </u>	100	100	40		150					3		60		SOT 32	
		_	_				_					_											
	\vdash	_								_	-							L					٠.
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	Ш																			- 9			
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC168	-	2SC764		2SC871		2SC727			
BC169		2SC764				2SC727			<u> </u>
BC177	_	2SA603			2SA550A				
BC178		2SA603			2SA550A				
BC179					2SA666				
BC182				2SC446					
BC201	2SA522		2SA373		2SA550				
BC202		2SA710			2SA550A				ļ
BC203		2SA710							
BC212		2SA712							
BC237			2SC111			2SC136			
BC238	2SC74					2SC134			
BC239	2SC103A					2SC 72A			
BC257	2SA561	2SA710		2SA697					
BC258	2SA561	2SA710		2SA696					
BC259	2SA562			2SA 696					(8)
BC307		2SA710		2SA697					
BC308		2SA710		2SA696					
BC309	2SA502			1					
BC327		2SA614		2SB526	2SA752			(ii)	
BC328		2S A 614		2SB526	2SA752				
BC337		2SC781		2SC777		2SC798		,	
BC338		2SC781		2SC777		2SC798			
BC413	2SC734	2SC896							
BC414	2SC734	2 S C 8 9 6							
BC415	2SA561	2SA718							
BC416	2SA561	2SA718							
								6.	1
			_						
BD109	2SC493		-	2SD58			2SD29		
BD130	2SD113					2SD232			
BD135				2SD58			2SD29		
BD136			_		2SB512			2SB514	
BD137	2SC490	-							
BD138	2SB503	2SB505		-	2SB512	_		65	
BD139	2SD102	200000	2SC1055				_		
BD140	2SB502								
BD148	2SD107			1	1			2SD315	Yit
BD149	2SD107	2SD180		 					
BD233	2SD103	2SD285			1			2SD313	
BD234	2SB434	1		 	2SB512			2SB507	
BD235	2SD130	2SD285		1	1			2SD313	1
BD236	2SB531			1.					
BD237	20001	2SD285			 	2SC1031		2SD61	
BD238	2SB530	2SB506		2SD59		2SB432		2SB491	
DDEGG	200000	10000		-				<u> </u>	
awi									
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-		-	_				 		
	-			+					
		-		+			_		
Total Control	-	-		+	-	-	+		
	-			+			+	+	100
		1		1					

		K	7		XIMUM	RA	TINGS	_	<u> </u>			_	ELE	CTRICAL	CHARA	ACTERI.	51105	fτ			_	OUTLINE	July.
TYPE	USE	MATER	POLALITY	Pc 25°C (mW)	Tj (°C)	Vas (V)	V ₀₈₀ (V)	lc (mA)	lα (μ A)	90 V ₀₈ (V)	min.	max.	Ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	*fae *#fab (MHz)	NF (dB)	Cob (pF)	Coxitab' (ps)	TO-	NOT
BFIII	HF	S	N	3 W	175	7	200	80			20		60					120		1.8	100	39	
BF 167	HF	S	N	130	175	40	30	25										350	3	0.15		39	
3F173	HF	S	N	260	175	40	25	25								7. 1		550		0.23		39	
3F177	HF	S	N	2.9W	175	100	100	40	200 n	100	20		15					120			100	39	
3F178	HF	S	N	2.9W	175	160	185	50	200 n	160	20		30					120			100	39	
F179A	HF	S	N	2.9W	175	160	185	50	200 n	160	20		20				1	120		1.3	100	39	
F 179B	HF	S	N	2.9W	175	220	220	50	200 n	160	20		20			-		120		1.3	100	39	12.00
F179C	HF	S	N	2.9W	175	250	250	50	200 n	160	20		20		-			120		1.3	100	39	
F 194	HF	S	N	220	125	30	20	30			115		I					260	1.5			25	
F195	HF	S	N	220	125	30	20	30			67		1					200	3.5			25	
F198	HF	S	N	500	150	40	30	25	100 n	40	70		4					400	3	0.22		92	*
F199	HF	S	N	500	150	40	25	25	100 n	40	85		7					550		0.32		92	*
3F240	HF	S	N	250	150	40	40	25	100n	20								400	1.7			92	*
3F241	HF	S	N	250	150	40	40	25	100 n	20								400	1.7			92	*
F254	HF	S	N	220	120	30	20	30		ļ	115	T	- 1					260	1.5			92	
F255	HF	s	N	220	120	30	20	30			67		- 1					200	3.5	1		92	
F257	AF	S	N	5W	175	160	160	100	50 n	100	25		30					90		4.2		39	
F 258	AF	S	N	5W	175	250	250	100	50 n	200	25		30			†		90		4.2		39	
F259	AF	S	N	5 W	175	300	300	100	50 n		25		30					90		4.2		39	٠
F310	HF	S	N	300	150	30	30	25	60 n	20								580				S0T 30	
F314	HF	S	N	300	150	30	30	25	60 n	20								580	2		,	SOT 30	*
F324	HF	S	P	250	150	30	30	25	50 n		50		4					440	3			SOT 30	*
F450	HF	S	P	150	125	40	40	25	50 n	30	60		1			† · · · ·		375	2	·		SOT 30	
F451	HF	S	Р	150	125	40	40	25	50 n	30	30		ī			1		325	2			SOT 30	
F457	AF	s	N	1.2W	150	160	160	100	50 n	100	25		30					90				SOT 32	
F458	AF	S	N	1.2W	150	250	250	100	50 n	200	25		30					90				SOT 32	
F459	AF	S	N	1.2W	150	300	300	100	50 n	250	25		30					90				SOT 32	*
BULLO	SW	S	N	60W	175	330	150	10A			5		7 A					25				3	
UHH	SW	S	N	50 W	150	400	300	6 A			5		3 A					20				3	
3UI 14	SW	S	N	50 W	150	250	150	6 A			5		3 A					20				3	* `
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BFIII	2SC996						·		
BF 167	2SC997								
BF 173		2SC+006							
BF 177	2SC996		2SC685						
BF178	2SC996		2SC685						
BF179A	2SC996		2SC685						
BF I 79B	2SC996		2SC685						
BF179C	2S C 996		2SC685						
BF I 94	2SC1000								
BF 195	2SC997			_					-
BF198						2S C 969			
BF199					ļ -	2SC969			
BF240	2SC383			2SC773		2SC965			-
BF241	2SC383			2SC773		2SC965			-
BF254	2SC383	· .		2SC773		2SC965			1
BF 255	2SC383	-		2SC773	-	2SC965			
BF257	2SC515								+
BF258	2SC515								+
BF259	2SC515	<u> </u>			 				+
BF310	2SC377		-						
BF314	2SC377								-
BF324		2SA206							+
BF450		2SA207							
BF451		2SA205	<u> </u>			_			
BF457	2SC996		2SC685	_					-
BF458	2SC996	-	2SC685		-				
BF459	2SC996		2SC685						-
								_	
			_					-	
					-			_	
	_			-					
	_							_	_
		<u> </u>							-
				-	 -	2SC1230	200907		
BUI 10				_			2SC807	_	
BUIII				200771	200001	2SC1230	-		1
BUI14		2SD153	2SC681A	2SC771	2SD321	2SC1229			
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8					-			-	
5				-					
				 -				-	
		- 9							
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			,		-	<u> </u>		_	
			<u> </u>	-		hFE graup	A —B —C		-
						 	6 -10-16 III IV V	_	
						 	Red White Ye	llow Green	+
						 	• (VCES)	-	
							1.525/		
					_				



BC113 BC114 BC115 BC116A BC119 BC139 BC125 BC126 BC140 BC141 BC142 BC143 BC153 BC154 BC154 BC160 BC161 BC204VI BC204VI BC204A BC205B BC205B	A A A A A A A A A A A A A A A A A A A	SO SO SO SO SO SO SO SO SO SO SO SO SO S	ZZZJZJZJZZZZ POLALITY	Pc 25°C (mW) 200 200 300 300 800 700 240 240	Ti (°C) 125 125 125 125 125 200 200	Vcs (V) 30 30 40 45	VCEO (V) 25 25 30	50	0.5	væ(v) 20	min.	max.	lc(mA)	hfe	hie (Ω)	hre (×10)	hoe (සුරි)	*fae **fae (MHz)	NF (dB)	Cob (pF)	Coxrbb'	OUTLINE TO.	NOTE
30114 30115 30116A 30119 30139 30139 30125 30126 30140 30142 30142 30143 30153 30154 30160 30204 30204A 30204A 30204B 30205A 30205B 30205B 30205B	A A A A A A A A A A A A A A A A A A A	S S S S S S S S S S S S S S S S S S S	Х Х Р Х Р Х Р Х Р	200 200 300 300 800 700 240	125 125 125 125 200	30 30 40 45	25 25 30	50 50	0.5	07.00		max.	Ic(mA)			1441	(MO)						
30114 30115 30116A 30119 30119 30125 30125 30126 30140 30142 30142 30143 30153 30154 30160 30204 3	A A A A A A A A A A A A	5 5 5 5 5 5 5 5 5 5 5 5	2202022	200 300 300 800 700 240	125 125 125 200	30 40 45	25 30	50	-	20								(MHZ)			.,		-
30115 30116A 30119 30139 30139 30125 30126 30140 30141 30142 30142 30143 30153 30154 30160 30161 30204A 30204A 30204B 30205B 30205B 30205C 30206B	A A A A A A A A A A A A	5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 2 2	300 300 800 700 240	125 125 200	40 45	30				200	1000	1.0	400	LOK	4.2	20	-	2.5	2.7	-	18	
30116A 30119 30139 30125 30125 30125 30126 30141 30142 30143 30153 30153 30154 30160 30161 30204A 30204A 30204A 30204B 30205B 30205B 30205C	A A A A A A A A A	S S S S S S S S S S S S S S S S S S S	7 2 0 Z 0 Z Z	300 800 700 240	125 200	45				20	200		1.0	400	IOK	4.2	20		1.5	2.7		18	_
3C119 3C139 3C125 3C126 3C126 3C141 3C142 3C142 3C143 3C154 3C161 3C204VI 3C204VI 3C204A 3C204A 3C205C 3C205C 3C205C 3C205C 3C205C	A A A A A A A A	\$ \$ \$ \$ \$ \$ \$ \$ \$	Z P Z P Z Z	800 700 240	200			200		20	100	-	10							25	-	5	
30125 30125 30125 30126 30140 30141 30142 30153 30153 30154 30160 30160 30161 30204VI 30204A 30204B 30205A 30205B 30205B	A A A A A A A	\$ \$ \$ \$ \$ \$ \$ \$	PZPZZ	700 240	_	60	40		0.05	20	80		150	70	1			130		10	-	5	
30125 30126 30140 30141 30142 30143 30153 30154 30160 30160 30204VI 30204A 30204B 30205A 30205B 30205B 30205B	A A A A A A A	\$ \$ \$ \$ \$	N P N N	240	200	-	30		0.05	40	40	120	150	2.0						25	-	5	
30126 30140 30141 30142 30142 30143 30153 30154 30160 B0161 B0204VI B0204A B0204A B0205A B0205B B0205C B0206B B0206C	A A A A A A	\$ \$ \$ \$ \$	PZZ			40	40		0.05	30	40		100								_	- 5	
BC140 BC141 BC142 BC142 BC143 BC153 BC154 BC154 BC204VI BC204A BC204A BC204A BC205A BC205A BC205B BC205C BC206B BC206C	A A A A A	S S S S	N N	240	125	50	30		0.05	20	30		50	2.0						25	_	5	
30141 30142 30143 30153 30153 30154 30160 80161 80204VI 80204A 80204A 80205A 80205A 80205B 80205B	A A A A A	S	N		125	35	30		0.05	20	30		150									5	
BC142 BC143 BC153 BC154 BC160 BC161 BC204VI BC204A BC204A BC205A BC205A BC205B BC205B BC205B BC206B	A A A A	S	_	650	175		40	1000		-	40		100					50				5	
BC143 BC153 BC154 BC160 BC161 BC204VI BC204A BC204A BC205A BC205A BC205B BC205C BC206B	A A A	s	N	650	175		60	1000			40	400	100					50			-	5	
BC153 BC154 BC160 BC161 BC204V1 BC204A BC204B BC205A BC205B BC205C BC206B BC206C	A A A		N	800	200	80	60	1000	0.05	40	20		200									5	
BC154 BC160 BC161 BC204VI BC204A BC204B BC205A BC205B BC205C BC206B BC206C	A	S	Р	800	200	60	60	1000	0.05	30	20		300		2-0-0-0							5	
BC160 BC161 BC204VI BC204A BC204B BC205A BC205B BC205C BC206B BC206C	Α	9	Р	200	125	40	40	100	0.05	30	50		0.1									18	
BC161 BC204V1 BC204A BC204A BC205A BC205A BC205B BC205C BC206B BC206C	_	S	Р	200	125	40	40	100	0.05	30	160		0.1						2.5			18	
BC204VI BC204A BC204B BC205A BC205B BC205C BC206B BC206C	۸	S	N	650	175		40	1000			40	400	100					50	- 3			5	
BC204A BC204B BC205A BC205B BC205C BC206B BC206C	A	S	Р	650	175		60	1000			40	400	100					50				5	
BC204A BC204B BC205A BC205B BC205C BC206B BC206C	Α	S	Р	200	125	50	45		0.05	45	50.	120	2						10			18	
BC204B BC205A BC205B BC205C BC206B BC206C	A	S	Р	200	125	50	45		0.05	45	110	220	2						10			18	
BC205A BC205B BC205C BC206B BC206C	Α	S	Р	200	125	50	45		0.05	45	200		2						10			18	
BC205B BC205C BC206B BC206C	A	S	P	200	125	25	20		0.05	20	110		2					2	10			18	
BC205C BC206B BC206C	A	S	Р	200	125	25	20		0.05	20	200		2						10		_	18	
BC206B BC206C	A	S	P	200	125	25	20	,	0.05	20	400	-	2						10		1	18	
3C206C	A	S	P	200	125	25	20		0.05	20	-	450	2				_		4		_	18	
	A	S	P	200	125	25	20		0.05	20	400	-	2				-		4	<u> </u>	+	18	
DUZUIA II	A	S	N	200	125	50	45	100	0.015	40	110	-	2	-	-	_	-	-	10	6	+	18	-
BC207B	A	S	Z	200	125	50	45	_	0.015	40	_	450	2			-			10	6	-	18	
	A	S	N	200	125	25	25		0.015	20	110	-	2	-			-	+	10	6	+-	18	
	_	-	-	200	125	25	25	_	0.015	20	200		2			-		-	10	6	+	18	
BC208B	A	S	N		-	_	25		0.015	_	-	-	2	_			-	_	10	- 6	-	18	
	A	S	N	200	125	25	_	-		20	420	-				-	-	-	4	6	-	18	
BC209B	Α	S	N	200	125	25	25		0.015	20	200	+	2		-	-	-		-	4	+	_	
BC209C	A	S	N	200	125	25	25	-	0.015	20	-	800	2		_	-			4	6	+	18	
	Α	S	P	200	125	40	40	-	0.05	30	90	-	0.1				_		-		-	18	
BC286	Α	S	N	800	200	70	60	-	0.02	30	20	+	500	25				_		12	-	5	
BC287	Α	S	N	800	200	60	60	-	0.05	30	20	-	500	75		<u></u>				20	-	5	
BC317A	Α	S	N	625	150	50	45	_	0.03	20	110	-	2	300					6	4	-	92	
BC318A	A	S	N	625	150	45	30	_	0.03	20	110	-	2	450	-				6	4		92	
BC317B	Α	S	N	625	150	50	45	-	0.03	20	200	-	2	300				-	6	4		92	
BC318B	A	S	N	625	150	45	30		0.03	20	200	+	2	450				-	6	4		92	
BC318C	Α	S	N	625	150	45	30	-	0.03	20	420	-	2	500				1	6	4		92	
BC319B	Α	S	N	625	150	30	20	-	0.03	20	200	-	2	500					4	4	-	92	
BC319C	A	S	N	625	150	30	20	150	0.03	20	420	800	2	500					4	4		92	
BC320A	Α	S	Р	625	150	50	45	150	0.03	20	110	220	2	300					6	4		92	
BC320B	Α	S	P	625	150	50	45	150	0.03	20	200	450	2	300					6	4		92	
BC321A	Α	S	P	625	150	45	30	150	0.03	20	110	220	2	500					6	4		92	
BC321B	Α	S	P	625	150	45	30	150	0.03	20	200	450	2	500					6	4		92	
BC321C	Α	S	Р	625	150	45	30	150	0.03	20	400	800	2	500					6	4		92	
BC322B	A	S	P	625	150	30	20	50	_	20	200	+	2	600					4	4		92	
BC322C	A	S	P	625	150	30	20	-	0.03	20	400	-	2	600				1	4	4		92	
BC323	A	S	N	7W	200	100	60	5A	100	100	-	_	50	5				1		80		5	
BC520	A	S	N	625	150	60	60	-	0.002	45	+	800	10	600	8.5K	7	24	+	6	1	+	92	
BC521	A	S	N	625	150	45	45	-	0.002	30	380	_		1300	28K	23	74		8		+-	92	
BC520B	A	S	N	625	150	60	60	50	-	-	180	_	10	600	8.5K	7	24	+	8		+	92	
BC520B	A	S	N	625	150	60	60		0.002	45	380	-	10	600	8.5K	7	24	+-	8	+-	+	92	
	A	-	N	625	+ -	45	-	-	-	-	-	1	10	_	28K	-	74	1	8	+	+	92	
BC521C BC521B	Α	S		n/5	150	45	45	50	0.002	30	380	800	10	1300	ZOK	23	14	1	0	1		32	i sa ee e

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISH	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC I I 3			2 SC 350	1			2SC 631 A	2SC693	
BC 114			2SC 350				2SC631A	2SC693	
BC 115		2SC 32	2SC110	2SC 306		2SC 202	200000		
BC I I 6A	2SA661	2SA545	200110	2SA697	35 9				-
BC 119	2SC 486	,		20.1007	7				
BC 139	2SA486	†	2SA743	7					
BC 125	2SC 1626	2SC 596				2SC 596		†	
BC 126	2SA682	10000		2SA697				* :	1
BC 140	2SC524	-		207.007					+
BC 141	2SC524	 					-	1	
BC 142	2SC516						12	1	
BC 143	2SA681						1		
BC 153							2SA705	1	
BC 154				1			2SA705		
BC 160	2SA512								1
BC 161	2SA512				21 6				
BC 204 V I		†	2SA672		92				
BC 204 A		1	2SA672		-			-	
BC 204B		t -	2SA672						2.4
BC 205 A			20072		2SA666				1
BC 205 B					2SA666				
BC 205C					2SA666				
BC 206B				-	2SA666				-
BC 206C				<u> </u>	2SA666		 		1.5
BC 207 A	2SC 1000		 		204000	-	<u> </u>		
BC 207B	2SC 1000	-	1						1
BC 208 A	2301000		2SC 350	-					-
BC 208 B			2SC 350						
BC 208C			2SC 350	-	_				-
BC 209 B		_	2SC 350	-			10,		
BC 209C			2SC 350					-	
BC 225			230330				2SA705		-
BC 286		2SC 1098					23A703		
BC 287		2SA636	-	-			12.22.8		
BC317A		23A636				2SC 969	1		-
BC317A							26 8		1000
BC318A			-	-		2SC 969	-		
			-			2SC 969			
BC318B BC318C				-		250 969			
BC318C			-			2SC 969			
BC319B						2SC 969			-
BC 320 A		-	-			2SC 969			
BC 320 A				-		<u> </u>			
BC 321 A	70	-	-	-			200 4 700		-
State of the state				-			2SA705	-	-
BC 321B				-			2SA705		
BC 321 C		 		205 4 705	004774			004701	
BC 322B				2SA725	2SA774	1		2SA701	-
BC 322C	000:		-	2SA725	2SA774 .		200:-	2SA701	
BC 323	2SC 492			-		*****	2SC 43		
BC 520				-		2SC 969			The state of
BC521						2SC 969			2500
BC520B		-			1	2SC 969			
BC520C	29-12-1			3.7		2SC 969			
BC 521C						2SC 969			0.707
BC521D			<u></u>			2SC 969			1100

		Z.	E		XIMUN	M K	ATINGS				Г			ECTRICA	LUNAN	ACTERI	31103	fr	1	Sec.		OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C (mW)	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	lcs (μA)	O Vos(V)	min.	max.	lc(mA)	hfe	hie (Ω)	hre (×10)	(四页)	*fae **fae (MHz)	NF (dB)	Cob (pF)	Coxrbb' (ps)	то.	NOTE
3C522C	A	S	N	625	150	20	20	50	IOn	20	400	800	2.0					(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3.0			92	1779
3C522D	A	S	N	625	150	20	20	50	10n	20	_		2.0	3				-	3.0			92	194
3C522E	A	S	N	625	150	20	20	50	10n	20	_	2200	2.0			1			3.0			92	143
3C523B	A	S	N	625	150	45	45	50	2 n	45	180	400	2.0	100								92	- 3
3C523C	.A	S	N	625	150	45	45	50	2n	45	380	800	2.0	100		+					-	92	7 (12)
BC526A	Α Α	S	P	625	150	60	50	200	15n	30	60		2.0	100/300		-	-		10.0	5.0		92	100
-		-	P	625	150	60	50	200	15n	30	60	-	2.0	200/400	-	-	-		4.0	5.0		92	7
3C526B	Α	S		1	-	5500	47.7	200	15n	30	60		2.0	350/	-	+			4.0	5.0		92	14
3C526C	A	S	P	625	150	60	50				_	-	-	350/600		-		-	4.0	15	-	92	
BC527	Α	S	P	625	150	60	60	1000	100n	40	40	-	100	1.0	-	-		-	-	_	-	92	
BC528	Α	S	Р	625	150	80	80	1000	100n	60	-	400	100	1.0	_	-	_			15	-	_	
BC530	Α	S	Р	625	150	130	120	100	100	100	40	-	10	200	_	-	-	50		6	-	92	- 100
BC531	Α	S	Р	625	150	160	150	100	50	120	60	-	10	200		_		50		6		92	
BC532	Α	S	N	625	150	160	140	100	100	100	_	250	10	200				50	10	6		92	
3C533	Α	S	N	625	150	180	160	100	50	120	40	250	10	200				50	8	6		92	
3C534	Α	S	Р	625	150	80	80	500	0.1	80	50		10					50				92	
3C535	Α	S	N	625	150	80	80	500	0.1	80	50		10					50				92	
BC537	Α	S	N	625	150	60	60	1000	0.1	40	40	400	100	1.0						15		92	1
BC538	Α	S	N	625	150	80	80	1000	10n	60	40	400	100	1.0						15		92	1 19
BC727	Α	S	Р	625	150	50	40	1000	0.1	40	63	630	100	2.0						20		92	
BC728	A	S	N	625	150	30	25	1000	10n	25	63		100	2.0		1				20	1	92	13,7
BC737	A	S	Р	625	150	50	40	1000	0.1	40	63		100	2.0			-			20	-	92	27.15
_	-	S	N	625	150	30	25	1000	10n	25	-	630	100	2.0	-	-		-		20	-	92	
BC738	A	_	_					100000	1011	23	22		50	2.0		+-		+-			100	5	-
BD115	A	S	N	875	200	245	180	150	_	-		-			-	+	-	0.8			100	220	
BD220	Р	S	N	36W	150	80	7.0	4A			30	-	500		-	4		_		-	+	-	
BD221	Р	S	N	36W	150	60	5.0	4A			30		1000			-	-	0.8		-	-	220	_
BD222	P	S	N	36W	150	80	5.0	4A			20	-	1.5A			-		0.8		-	+	220	
BD223	P	S	Р	36W	150	80	-	4A			30		500			1		0.8	-	-	-	220	
BD224	Р	S	P	36W	150	60	5.0	4A			30	120	1000					0.8		1		220	
BD225	P	S	Р	36W	150	80	5.0	4A			20	80	1.5A					0.8				220	
BF 167	Α	S	N	150	175	40	30	25			30	60	4.0	6.0								18	
SE5040	Α	S	N	175	175	30	30	25	50n	20	20	220	4.0	5.0					2.7			18	
BF222	Α	S	N	175	175	50	50		1000	10	20	60	2.0	4.0					2.0			18	
BF257		S	N	1000	175	160	160	100	50n	100	25		30					75				5	-
BF258		S	N	1000	175	-	250	100	50n	200	25		30					75				5	-
BF259		S	N	1000	175	-	300	100	_	250	-	-	30					75				5	-:-
BF336	-	s	N	1000	200		185	100	_	200	20	-	30				_	50				5	
		S	N	1000	200	-	250	100	_	-	20	+	30		-	-	+	50	-		+	5	
BF337	-	-	-	1000	200	-	300	100			20	-	30			+	-	50	-	-	+	5	
BF338	-	S	N	_	-	-	1	100	-	-	40	-	10.0	E 0	-	+	-	30	+	40		5	
BFX34	P	S	N	5W	200	-	60			-	1		_	5.0	-	+	-	+	2 0	1		18	
BFX37	A	S	P	360	200	60	60	50		f	70			2.0	-	+	-		3.0	6.0	-	5	
BFX38	A	S	P	800	200	-	55	1000	_	40	-	-	100	1.0		-	-	+	-	_		_	
BF X39	A	S	P	800	200	-	55	1000	50n	40	-	-	100	1.0	-	-		+	-	20	-	5	
BFX40	A	S	P	800	200	-	75	1000	_	50	+	+	100	1.0	-	+	-	-	-	20	-	5	
BFX41	A	S	P	800	200	+	75	1000	-	50	+	+	100	1.0	_	-	-	-	+	20	-	5	
BFY50	AS	S	N	800	200	-	35	1000	_	60	-	-	10	10		1		60				5	
BFY51	AS	S	N	800	200	60	30	1000	50	40	30		10	30				50				5	*
BFY52	AS	S	N	800	200	40	20	1000	50	30	30)	10	30				50				5	
BFY56	AS	S	N	800	200	80	45		50n	50	15	5	0.1	2.0						25		5	
BFY64	AS	S	P	700	200	-	-				80	+	10	-				1		10		5	
BSX32	S	S	N	800	200	-	+ -	1000	4.0	50	+	_						1		10		5	
FQ3467	<u> </u>	S	P	500	200	_	40	1.500	1.0	25			150	-		+	1	1		1.7	1	86	OUA
FPQ3467		S	P	200	150	+	40	-	1.0	25	-	_	150	-	1	1	1	+				86	QUAI
	-	-	P		1	-	-	+	-	_	+	-		-	-	+	-	+-		+	+	86	QUA
FQ3468	_	S	P	500 200	150	-	50	-	1.0	25	+	-	150	-	-	+-	+	+		-	+	86	QUAI
FPQ3468		S																					

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
BC 522 C	2 S C 364				2SC 1478			Als III	
BC 522D					2SC 1478				
BC 522E					2SC 1478			1	
BC 523B									
BC 523C									
BC 526 A		2SA539	2SA672				2SA678		
BC 526B	137	2SA539	2SA 672				2SA678		
BC 526C		2SA539	2SA672				2SA678		
BC 527	2SA513								
BC 528	2SA682								
BC 530		2SA712							1
BC 531		2SA712							
BC 532	2SC95	2SC49		2SC 310					
BC 533	2SC 507	2SC 1103			15			1000	
BC 534	2SA497	2SA606						1	
BC 535	2SC512	C = =				2SC212		1 / 1	A
BC 537	2SC513								
BC 538	2SC 1382								
BC 727	2SA486						†		1 2
BC 728						2SC 354			
BC 737	2SA48								
BC 738						2SC 354			-
BD115	2SC1168	2SC 1356					1	2SC 1235	
BD220							2SC 756		
BD221							2SC 756	1	-
BD222			-			_	2SC 756	1	
BD223	2SB556		1				2SB518		
BD224	2SB556						2SB518		-
BD225	2SB556				12		2SB518	1	
BF 167			2SC 167					250536	
SE5040			2SC 167					2SC536	
BF 222			2SC 167					2SC536	
BF257				2SC818				-	77
BF 258	2SC 996								
BF 259	2SC 996						0.7		
BF336	2SC 996				-				. 17
BF 337	2SC 996								
BF 338	2SC 996								
BFX34						2SD413			1
BFX37					2SA722				
BF38	2SA516							7 7	17 10
BFX 39	2SA516							11.2	1 30
BFX40	2SA516								7 9
BFX41	2SA516								
BFY50						2SC 229		†	-
BFY51						2SC 229			
BFY52						2SC 229		-	
BFY56							2SC 125		
BFY64		2SA552					200120		100
BSX32						2SC 229			-
FQ3467						20022	-		
FPQ 3467								+	
FQ 3468								-	
FPQ 3468		-							
FPQ3724			_		-				

		4	>	M.	AXIMUI	M R	ATINGS	3					EL	ECTRICA	L CHAR	ACTERI	STICS						
TYPE	USE	MATERIAL	POLALITY	Pc 25°C (mW)	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	lc (μA)	Vos(V)	min	hre max.	Ic(mA)	hfe	hie (Q)	hre (×10)	hoe (μδ)	fr *fae **fae (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
FP03725		S	N	2W	150	-	50	10	1.7	40	50		100	2.0			210.9	(MILZ)	-			116	QUAD
F03724	-	S	N	500	200	-	40	10	1.7	40	50		100	2.0	_	1				-		86	QUAD
03725		S	N	500	200	-	50	10	1.7	40	50	-	100	2.0	_					_		86	QUAD
MD918	A	S	N	300	200	30	15	50	0.1	15	50	-	.01	2.0		-		600	6.0	1.7	-	5	DUAL
Contraction of the second	-	S	N	500	200	60	30	600	0.1	13	40	120	150			-		200	0.0	8.0	-	5	DUAL
MD2218	A					200			-	-					-	-		250		8.0		5	DUAL
MD2218A	A	S	N	500	200	75	40	600	-,		40	120	150	_		-	200			8.0	_	5	DUAL
MD2219	A	S	N	500	200	30	60	600	_	-	100	300	150			-	_	250	- 5	_	-		
MD2219A	A	S	N	500	200	75	40	600		-	100	300	150			-	-	300	_	8.0	-	5	DUAL
MD2369	S	S	N	500	200	40	15	500	30n	20	40	140	10					500		4.0	-	5	DUAL
MD2904	S	S	P	500	200	60	40	600		-	40	120	150					200	_	8.0		5	DUAL
MD2904A	S	S	Р	500	200	60	60	600		_	40	120	150					200		8.0	-	5	DUAL
MD2905	S	S	Р	500	200	60	40	600			100	300	150					200		8.0		5	DUAL
MD2905A	S	S	P	500	200	60	60	600			100	300	150					200		8.0		5	DUAL
MD3250	A/S	S	P	500	200	50	40	50	10n	50	50	150	1.0	125	3.5	10	22	200	4.0	6.0		5	DUAL
MD3251	A/S	S	Р	500	200	50	40	50	10n	50	100	300	1.0	250	7.0	20	35	250	3.0	6.0		5	DUAL
MPS2711	P	S	Z	625	150	18	18	100	0.5	18	30	90	4.5	75						4.0		92	1
MPS2712	P	S	N	625	150	18	18	100	0.5	18	75	225	2.0	140						4.0	L	92	V
MPS2923	A	S	N	625	150	25	25	100	0.5	25				135						12		92	
MPS2924	A	S	N	625	150	25	25	100	0.5	25				225						12	1	92	
MPS2925	A	S	N	625	150	25	25	100	0.5	25				350						12		92	
MPS2926	A	S	N	625	150	18	18	100	0.5	18				250						3.5		92	- 19
MPS3721	A	S	N	625	150	18	18	100	0.5	18				360						3.5		92	
MPS3392	A	S	N	625	150	25	25	100	0.1	18	150	300	2.0	325	-	+-				3.5		92	
MPS3393	A	s	N	625	150	25	25	100	0.1	18	90	_		245	-	1				3.5		92	
MPS3394	A	S	N	625	150	25	25	100	0.1	18	55			180		+	_		+	3.5		92	-
MPS3395	A	S	N	625	150	25	25	100	0.1	18	150	-	_	475	-	+				3.5	-	92	-
MPS3702		S	P	625	150	40	25	200	0.1	20	60	-	50	413	-	+		100	_	12		92	
	A	_	P		+			_	_	_	30	1	_			-	-	100		12	-	92	_
MPS3703	Α	S	-	625	150	40	25	200	0.1	20	-		50		-	-	-		_	12	+	92	
MPS3704	A	S	N	625	150	50	30	600	0.1	20	100	-	_		<u> </u>	-	-	100				92	_
MPS3705	Α	S	N	625	150	50	30	600	0.1	20	50		_			-		100		12	+		
MPS3706	A	S	N	625	150	40	20	600	0.1	20	30	-	-	-		-	_	100		12	-	92	_
MPS3707	A	S	N	625	150	30	30	30	0.1	20	100	-		325		-			5.0		-	92	
MPS3708	Α	S	N	625	150	30	30	30	0.1	20	45		_	423				ļ			<u> </u>	92	
MPS3709	Α	S	N	625	150	30	30	30	0.1	20	45	_	_	150					_		_	92	
MPS3710	Α	S	N	625	150	30	30	30	0.1	20	90	330	1.0	270		8 -						92	
MPS3711	A	S	N	625	150	30	30	30	0.1	20	180	660	1.0	490								92	
MPS5172	Α	S	Ν	625	150	25	25	100	0.1	25	100	500	10	425								92	
MPS6513	Α	S	Ν	625	150	40	30	100	50n	30	50	100	2.0							3.5		92	
MPS6513	Α	S	Ν	625	150	40	30	100	50n	30	90	180	2.0							3.5		92	
MPS6514	Α	S	Ν	625	150	40	25	100	50n	30	150	300	2.0							3.5		92	
MPS6515	A	S	N	625	150	40	25	100	50n	30	250	500	2.0							3.5		92	
MPS6516	A	S	P	625	150	40	40	001	50n	30	50	100	2.0							4.0		92	
MPS6517	A	S	P	625	150	40	40	100	50n	30	90	180	2.0							4.0	-	92	
MPS6518	A	S	Р	625	150	40	40	100	1.0	30	150	300	2.0			1				4.0		92	
MPS6519	A	S	P	625	150	25	25	001	1.0	20	250			1		1	T .			4.0	-	92	
MPS6520	A	s	N	625	150	40	25	100	50n	30	200	-	-	1		1		1	3.0	3.5	1	92	
MPS6521	A	S	N	625	150	40	25	100	50n	30	300	-	_	+	-	1	1		3.0	3.5		92	
MPS6522	A	S	P	625	150	25	25	100	50n	20	200				-	+	+	-	3.0	3.5	+-	92	
MPS6523	A	S	P	625	150	25	25	100	50n	20	300					+	1		3.0	3.5	-	92	
	-	-	_		-			_	-		1	-	-	+		+	-	-	3.0	5.0	+	92	
MPS6530	A	S	N	625	150	60	40	600	50n	40	40	_		├	-	+	-	+	+	_	+		
MPS6531	A	S	N	625	150	60	40	600	50n	40	90	-	-	_		-	-	-	-	5.0	-	92	
MPS6532	A	S	N	625	150	50	30	600	0.1	30	30	-	100		-	-		+	+	5.0		92	
MPS6533M	Α	S	P	625	150	40	40	600	50n	30	40			-	_	1		1	-	8.0	_	92	
MPS6534M	A	S	Р	625	150	40	40	600	50 n	30	90	-		ļ	L	\perp				8.0		92	
MPS6535M	A	S	Р	625	150	30	30	600	0.1	20	30	生 「	100	L		\perp	L	L		8.0	L	92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
FRQ 3725				1				1	80
FQ3724	- :			- 4			¥1		1
FQ 3725				100					120
MD918									DUAL
MD2218	_								DUAL
MD2218A								-	DUAL
MD2219					F 40				DUAL
MD2219A	1								DUAL
MD2369									DUAL
MD2904									DUAL
MD2904A					A				DUAL
MD2905									DUAL
MD2905A									DUAL
MD3250									DUAL
MD3251			4						DUAL
MPS 2711					100	2SC 826	2SC 805	2SC 427	1
MPS 2712	i.			7		2SC 826	2SC 805	2SC 427	200
MPS 2923					1 1 1	2SC 826	2SC 805	2SC 427	31 500
MPS 2924					34	2SC 826	2SC805	2SC 427	l log
MPS 2925						2SC826	2SC 805	2SC427	W- 1
MPS 2926						2SC 826	2SC 805	2SC 427	1 10 11
MPS 3721				1		2 SC 826	2SC 805	2SC 427	12.0
MPS 3392						2SC 826	2SC 805	2SC 427	
MPS 3393						2SC826	2SC 805	2SC 427	1
MPS 3394	A					2SC826	2SC 805	2SC 427	
MPS 3395	*					2SC 826	2SC 805	2SC 427	
MPS 3702	2SA503		2SA537A			2SA523A			
MPS 3703	2SA503		2SA537A	- 1		2SA523A		11 (
MPS 3704	2SC 503	2SC 959		2SC 307				8	
MPS 3705	2SC 503	2SC 959		2SC 307		1			
MPS 3706	2SC 482	2SC 959		2SC 307			· ·		7-2
MPS 3707	21 =						2SC 470	2SC 1048	1887
MPS 3708							2SC 470	2SC 1048	5 7
MPS 3709						775	2SC 470	2SC 1048	
MPS 3710		1.2	19			1000	2SC 470	2SC 1048	1 1 1 1 1
MPS 3711					1.00		2SC 470	2SC 1048	
MPS5172	2SC 503		1		7 76	2SC 198			. WES
MPS 6512	2SC 503				177	2SC 189			77.00
MPS 6513	2SC 503	-			55 V. 1-	2SC 189			1 11 7
MPS 6514	2SC 503		-	Story E.	25.00	2SC 189			1 /2 /
MPS 6515	2SC503		C P L of	ALC: NO	4年17	2SC 189			
MPS 6516	2SA501		2SA673						
MPS 6517	2SA501	-	2SA673						
MPS 6518	2SA501		2SA673		-				
MPS 6519	2SA501		2SA673						74-13
иPS 6520		- 3		2SC 304	2.4			2SC 875	- Hill
MPS 6521	1 -	1	1	2SC 304				2SC875	F kn-
MPS 6522	2SA501		2SA673						1001
MPS 6523	2SA501		2SA673					7	1750
MPS 6530	2SC 503	2SC 959						10	- 19
MPS 6531	2SC 503	2SC 959							275
MPS 6532	2SC 503	2SC 959					F		1250
MPS6533M	2SA504		1			2SA580	1		
APS6534M	2SA504					2SA580	1 -	· · · · · · · · · · · · · · · · · · ·	50
MPS6535M	2SA504	-	2SA673		-	2SA580	La Contract	45.4	

		1	ے	M	AXIMU	M R	ATINGS	3					EL.	ECTRICA	L CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25 °C	Tj (*c)	Vcs (V)	VCE0 (V)	lc (mA)	lc: (μA)	Vos(V)	min	max.	lc (mA)	hfe	hie (Ω)	hre (×10)	hoe (μδ)	fr *fae **fap (MHz)	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
MPS6560	A	S	N	(mW)	150	25	25	600	0.1	20	50	200	-	_				60		30		92	- 170
MPS6561	A	S	P	625	150	25	25	600	0.1	20	50	200	350	-		-		60	_	30	1	92	- 13
MPS6562	-	S		-	150		-	600	-	-	50		_	-				60		30	+-	92	_
	Α	_	N P	625	-	20	20	-	0.1	20		200	500		-	-					-	92	_
MPS6563	A	S	-	625	150	20	20	600	0.1	20	50	200	350			-		60		30	-	92	
MPS6565	Α	S	N	625	150	60	45	200	0.1	30	40	160	10	2.0						3.5	,		_
MPS6566	Α	S	N	625	150	60	45	200	0.1	30	100	400	10	2.0		-				3.5	-	92	
MPS6571	Α	S	N	625	150	20	20	50	5 0 n	20	250	1000	0.1			_		50		4.5		92	
MPSA05	Α	S	N	625	150	60	60	500	0.1	60	50		10					50				92	
MPSA06	Α	S	N	625	150	80	80	500	0.1	80	50		10			_		50				92	
MPSA09	Α	S	7	625	150	50	50	100	0.1	25	100	600	0.1					30		5.0		92	
MPSA12	Α	S	N	625	150				0.1	15	20K		10	35						8.0		92	
MPSA13	Α	s	N	625	150	30	30	300	0.1	30	5K		10		Į.			200	2.0	5.0		92	
MPSA14	Α	S	N	625	150	30	30	300	0.1	30	IOK		10					200	2.0	5.0		92	
MPSA20	Α	S	N	625	150		40	100	0.1	30	40	400	5.0			_		125		4.0		92	
MPSA70	Α	S	Р	625	150		40	100	0.1	30	40	400				_	-	125		4.0		92	
MPSA42	A	s	N	625	150	300	300	500	0.1	200	40		30			1		50				92	- 10
MPSA43	A	s	N	625	150	200	200	500	0.1	160	-	200	30	_		+	-	50		-		92	_
MPSA55	A	S	P	625	150	60	60	500	0.1	60	50	200	10		-	1		50			1	92	
MPSA56	A	S	P	625	150	80	80	500	0.1	80	50		10			-		50	-	-	+	92	_
MPSA92	A	S	P		-		300			200		-	30		-	-	-	50	-	-	-	92	
	_		_	625	150	330		500	0.25		25	150		_		-	-	_	-	-	-	92	
MPSA93	Α	S	Р	625	150	200	200	500	0.25	160	30	150	30			-		50		0.0			
MPSL01	Α	S	N	625	150	140	120	600	1.0	75	50	300	10	- 30		-		60		8.0	-	92	
MPSL51	Α	S	Р	625	150	100	100	600	1.0	50	40	250	50	20		_		60		8.0	_	92	_
MPSL07		S	Р	625	150	6.0	6.0	80			30	120	10					500		3.0		92	
MPSL08		S	Ρ	625	150	12	12	80			30	120	10			1		700		3.0		92	
PE3100		S	Ν	425	150	30	30		0.2	30	30	225	5	5								92	
PE5010	Α	S	N	300	150	30	30		50n	10	25	200	4	3.75		1			3.3		1	92	
PE5013	Α	s	N	300	150	20	20		50 n	10	20	200	4	3.0					4.0			92	
PE5015	Α	s	Ν	300	150	20	20		50 n	10	20	200	4	3.0					4.0			92	
PE5025	IF	S	N	425	150	30	30		50n	30	20	100	10	5.0								92	
PE5029	Α	S	N	425	150	35	30		0.2	30	30	225	5	5.0		1			6.0			92	
PE5030	A	S	N	425	150	45	40		0.1	30	45	150	7	6.0		+				1		92	
PE5031	A	s	N	425	150	40	30		0.1	30	30	180		6.0	-	+	-		4.5			92	
PE6020	A	S	N	625	150	60	60	IA	0.1	50	100	300	-	4.0		+	+		4.5	+-		92	
PE6021	_	_	N	625	150	60		_		50	100	-	-	4.0		+	-					92	
	A	S	-			_	60	IA	0.1				1111		-	+			10	7.0		_	
PN4357	Α	S	Ρ	625	150	240	240		20n	200	80	300	10	250		+			10	7.0	-	92	
PN5964	AP	S	N	625	150	160	150	600	50n	120	50	250	10	50	6K	-	40				-	92	
PN5965	AP	S	N	625	150	200	180	600	50n	160	50	250	10	50	6K	-	40	-	-	-	+	92	
SE5020	Α	S	N	175	175	20	20	-	50n	10	20		4	6					3.3			18	
SE5021	Α	S	N	175	175	20	20		50n	10	20	200	4	6					4.0			81	
SE5022	Α	S	N	175	175	20	20		50n	10	20	200	-	6					4.0			18	,
SE5023	A	S	N	175	175	20	20		50 n	10	20	200	4	6					6.0			18	
SE 5024	Α	S	N	175	175	20	20		50n	10	20	200	4	6					6.0		1	18	
SE5035	Α	S	N	200	175		30		50n	30	40	180	5	10					5.0			18	
SE5036	Α	S	N	200	175		30		50n	30	30	225	5	8					5.0			18	
SE5050	Α	S	N	175	175	20	20		50n	10				3		1 2			4.0			18	
SE5051	A	s	N	175	175	20	20		50n	10	9			3		1			4.0		1	18	
SE5055	A	s	N	175	175	20	20		50n	20	20	220	2	5		1	1	1	5.0		1	18	
SE6020	A	S	N	300	125	60	60	ΙA	0.1	50	100	300	_	4.		+	+	_	1.0	-	+-	5	
SE6021	A	S	N	300	125	60	60	IA	0.1	50	100	300	1111	4	-	1	-	-	-	-	+	5	
				1000000		_	_	IA	_	-	-	300				+		00	-		+	-	
SE7055	P	S	N	1000	200	220	220	-	0.1	150	20	-	-	2		-		80			+-	5	
SE7056	Р	S	N	1000	200	300	300		0.1	200	20		1	2	-	-		80		-	+	5	
SE7057	Р	S	N	1000	200	450	450		0.1	300	15		1	1.5		_		80		_		- 5	
SE9331	Р	S	N	20W	175	300	300	IA	10	300	-	250	-		_			10	_	20		66	
2N706		S	N	300	175	25			0.3	15	20		10	2.0						6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
MPS 6560		2SC 959		2SC 306		2SC 221		1 1	+
MPS 6561	2SA504	20000				2SA580		1	-
MPS 6562	20/1001	2SC 959		2SC 306		2SC221			
MPS 6563	2SA504	20000				2SA580			
MPS 6565	2SC 501					2SC 202			
MPS 6566	250501			-		2SC 202			-
MPS 6571	2SC 482	-					2SC 15		
MPSA05	2SC 503	-	1				200.0	1	+
MPSA06	2SC 560				-	2SC 560	<u> </u>	-	
MPSA09	200300	+	+			2SC 969			
MPSA12			<u> </u>	1	-	20000			1
MPSA13									
MPSA14			V						
MPSA20		+	2SC 151					2SC875	
MPSA70	2SA501	1	2SA673					2000.0	
MPSA42	20/301	1	204013	+					
MPSA43		-							
MPSA55			1	1				2SA535	1
MPSA56		1	2SA537A	-				2071000	13
MPSA92			23A331A	-				-	
MPSA93							li-	-	100
MPSL01		2SA712							
MPSL51		2SA712			-			-	
MPSL07		ZSATIZ	2SA742	-		7 2			
MPSL08		-	2SA742	-					- 2
			23A142	-	-	2SC 200		-	6.2
PE3100 PE5010		-			-	2SC238	1		
PE50ID PE50B		1		-		2SC238	-	-	1.
PE50B		-		-		2SC238		-	
	000000	000110		-		2SC236 2SC61	1	1	-
PE 5025	2SC 383	2SC 149 2SC 49	the second second			2SC46		-	- 3.53
PE 5029	2 SC 383				-			-	-
PE5030	2SC383	2SC 49			-	2SC46	-	-	-
PE5031	2SC383	2SC 49	-	-	-	25046		-	1 13
PE 6020	-					2SC 1069		-	
PE6021		-				2SC 1069	-	-	-
PN4357.		-			000100			-	
PN5964		-	N°		2SD198			-	-
PN5965		-			2SD198	-		-	-
SE5020								1	1 70
SE5021			-	-					11.00
SE5022	22002		-					-	174790
SE 5023			ļ		-			-	0.0
SB5024			1		2		-	-	0.75
SE5035			-	100				-	17192
SE5036									101,950
SE5050		2SC567			2000/2002/2002				- 100
SE5051		2SC 567							300
SE5055		2SC 567						1	301200
SE6020						2SC 1069			A Comment
SE6021			No.			2SC 1069			36
SE 7055									E VAINT
SE7056			9						2.53
SE7057			x)						1.150.00
SE9331		,					· 2SD326		allow the
2N706		2SC 1072	2SC 1072			2SC 1072			

		¥	≥		XIMUN	I RA	TINGS	1					EL	ECTRICAL	CHAR	ACTERIS	STICS					OUTLINE	
TYPE	USE	MATERI	POLAUTY	Pc 25°C (mW)	Ti (°C)	Vcs (V)	VCEO (V)	lc (mA)	lcs (μA)	Vos(V)	min.	hre max.	lc(mA)	hfe	hie (Q)	hre (×10)	hoe (උප)	fr *fae **fab (MHz)	NF (dB)	Cob (pF)	Coxrbb'	то.	NOTE
MPS706	SH	S	N	625	150	25			0.5	15	20		10	2.0						6.0		92	1
N706A	SH	S	N	300	175	25		1	0.5	15	20	60	10	2.0				-		5.0		18	
APS706A	SH	S	N	625	150	25			0.5	15	20	60	10	2.0				100	- 1	6.0		92	
N709	SH	S	N	300	200		6.0		50n	5	20	120	10					600		3.0		18	
T709	SH	S	N	300	200	15	6.0	41	50n	5	30	125	10					600		3.0		18	
N3010	SH	S	N	300	200	15	6.0	-		-	25	125	10					600		3.0		18	(1
2N718A	A	S	N	500	200	75	32	-	10n	60	40	120	150	3.0					12	25		18	
2N1613	A	S	N	800	150	75	32		10n	60	40	120	150	3.0		1			12	25		5	
PN1613	A	S	N	625	200	75	32		10n	60		120	150	3.0					12	25		92	
N956	A	S	N	500	200	75	32		10n	60	-	300	150	3.5		-	_		8	25		18	
2N1711	A	S	N	800	200	75	32		10n	60	-	300	150	3.5					8	25		5	
PN1711	A	S	N	625	150	75	32	-	10n	60		300	150	3.5					8	25		92	
	-	S	-	300	175	40	32	200	0.5	20	25	300	10	3.3		-		350	-	4	1	18	
2N834	SH	-	N		-	40	-	200	0.5	20	25	-	10			-	-	350	-	4		92	
MPS834	SH	S		625	150		10	-		-		-	3	6	-	-	-	330	6	1.7	1	18	
2N918	A	S	N	200	200	30	15	50	10n	15	20	-	3	6	-7	-	-		6	1.7	+	92	-
MPS918	A	S	N	625	150	30	15	50	10n	15	-	300	0.01	400		+-	-		3	8.0	-	18	
2N930	A	S	N	300	175	45	45	30	10n	45	100	300	-	400		+	-		3	0.0	+	18	
2N997	A	S	N	500	175	75	45	300	10n	60	1000		0.1	1000	-	-	-	-	6	30	+	18	
2N998	A	S	N	500	200	100	60		10n	90	800		1.0	1000	-	-	-	-	0	-	-	18	
2N999 .	A	S	N	500	200	60	60	500	10n	60	1000		0.1	7.5		-	-		-	20	-	- 5	
2N1893	A	S	N	800	200	120	80		10n	90	20		0.1	70		-	-		-	15	+	_	
PN1893	Α	S	N	625	150	120	80		10n	90	20		0.1	70		-	-			15	+-	92	_
2N2218	Α	S	N	800	175	60	30	800	10n	50	40	120	150		60	_	1			8	-	5	_
2N2219	A	S	N	800	175	60	30	800	10n	50	100	300	150		60	<u> </u>	_	-		8	-	5	
PN2218	Α	S	N	625	150	60	30	800	10n	50	40	120	150		60			_	_	8	-	92	
PN2219	Α	S	N	625	150	60	30	800	10n	50	100	300	150		60	-	_		ــــ	8	-	92	
2N2221	A	S	N	500	175	60	30	800	1 0 n	50	40	120	150	C.,	60	1			-	8	1	18	51.*
2N2222	A	S	N	500	175	60	30	800	10n	50	100	300	150		60	-	_	_		8	1	18	
PN2221	A	S	N	625	150	60	30	800	10n	50	40	120	150		60					8		92	
PN2222	A	S	N	625	150	60	30	800	1 0 n	50	100	300	150		60					8		92	
2N2218A	A	S	N	800	175	75	40	800	10n	60	40	120	150	150	60	500	1			8		5	
2N2219A	A	S	N	800	175	75	40	800	I0n	60	100	300	150	200	60	800)	17.4	4	8	34	5	
PN2218A	A	S	·N	625	150	75	40	800	I0n	60	40	120	150	150	60	500				8		92	
PN2219A	A	S	N	625	150	75	40	800	10ก	60	100	300	150	200	60	800)		4	8	1979	92	
2N2221A	A	S	N	500	1,75	75	40	800	10n	60	40	120	150	150	60	500)			8		18	
2N2222A	Α	s	N	500	175	75	40	800	10n	60	100	300	150	200	60	800)		4	8		18	
PN2221A	A	S	N	625	150	75	40	800	10n	60	40	120	150	150	60	-500)			8		92	
PN2222A	A	S	N	625	150	75	40	800	10n	60	100	300	150	200	60	800)		4	- 8		92	
2N2369	SH	S	N	360	200	40	15	500	0.4	20	40	120	10						1	4		18	
2N2369A	SH	S	N	360	200	40	15	500	0.4	20	40	120	10							4		18	
MPS2369	SH	S	N	625	150	40	15	500	0.4	20	40	120	10							4		92	
2N2484	A	S	N	360	200	60	-	50	10n	45	100	500	.01	500		800)		3	6		18	
PN2484	A	S	N	625	150	60	60	50	10n	45	250	-	-	700		800)		3	4.5	5	92	
2N2639	A	S	N	600	1	45	45	30	10n	45	50		-	350					8	4		5	
2N2640	A	S	N	600	1	45	45	30	10n	45	50	+	-	350			1	1	8	4	-	5	
2N2641	A	s	N	600	1	45		30	10n	45	50	-	-	350			1		8	4	_	5	
2N2642	A	S	N	600	+	45	+	30	10n	45	100	1	-	350				1	8	4	_	5	
2N2643	A	S	-	600	+	45	-	30	10n	45	100	1	-	350		+	+	+	8	4		5	
2N2644	A	S	N	600	+	45	+	30	10n	45	100	-	-	350	1	1.	+		8	4		5	
	A	S	N	500	200	80	-	40	1011	60	2K	-	-	9K	+	+	+		10	10	-	18	
2N2723	A	S	-	500	200	80		40	100	60	7K	1	-	30K	1	+	+	-	6	10	_	18	
2N2724	1	-	-	_	-	-	+	30		30	2K	1	-	9K	1	+	+	+	6	10		18	-
2N2725	A	S	-	500	200	45	-	-	2n	-	40	-	_	34	-	+-	-		- 0	6		18	
2N2894	SH	-	-	360	200	12	-	200	10	6		-	-	+	+-	-	-	+	-	4.5	_	18	-
2N2894A	SH	-	-	360	200	12	_	200	10	10	40	-	-		-	+-	+-	-	+-	-	_	_	100
2N3012	SH	S	P	360	200	12	12	200			30	120	30		-			1	_	6		18	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
MPS 706	2SC 503					2SC 906	.		11
2N706A	2SC 982						-	9	· Section
MPS 706A	2SC 503					2SC 906			
2 N 7 0 9						2SC 850	2SC634		
FT 709					1	2SC 850	2SC 634		- 1
2N3010						2SC850	2SC634	8	
2N718A	· -	2SC 1008					2SC1124		11.00
2N1613		2SC 1008					2SC1124	- 1	Edit
PN1613	-	2SC 1008				No.	2SC1124		1111
2N956		2SC 1008					2SC1124		
2N1711	-	2SC 1008	T. Comment				2SC1124		
PN1711		2SC 1008					2SC1124		7 7
2N834	2SC503			_		2SC 189			
MPS 834	2SC 503					2SC 189	1		
2N918						2SC 172A			100
MPS 918	Table 2					2SC 238			
2 N 9 3 0		2SC 899			4		l and the second		8/240
2N997									
2N998	-								
2 N 9 9 9									100
2N1893					S. 93		2SC 1127		
PN1893						-	2SC1127		
2N2218					2SC696	2SC 229			
2N2219					2SC696	2SC 229	100 17	DEL TO B	10 V.L
PN2218			-		2SC 696	2SC 229			
PN2219					2SC 696	2SC 229			To be
2N2221	_				2SC 696	2SC 229	1.14.6		5 114
2N2222					2SC 696	2SC 229		7 2	THE
PN2221					2SC 696	2SC 229			1 5674
PN2222					2SC 696	2SC229			1 - 2
2N2218A					2SC 696	2SC 229			
2N2219A			_		2SC696	2SC 229			200
PN2218A					2SC 696	2SC 229	1		6
PN2219A				-	2SC 696	2SC 229			- 20
2N2221A					2SC696	250229	1		
2N2222A	-			1	2SC 696	2SC 229	N 100		7. 3.7
PN2221A	-				2SC 696	2SC 229			
PN2222A		11-1			2SC 696	2SC 229			1.3
2N2369	2 SC 108			1	200000	2SC 233			nh/A
2N2369	2 30 100			-		2SC233			ATTEN
MPS 2369	2SC 108					2SC 233			1,792.0
2N2484	200100	2SC 1400	_					2SC 1570	THE COLD
PN2484		2SC 1400						2SC 1570	10000
2N2639		2001400	-	2SC 1583					To Mississ
2N2640				2SC 1583			1		
2 N 264 I	Pro STOCKE		-	2SC 1583				1.10	100
2 N 2 6 4 2	7			2 S.C 1583	100				THE RE
2N2642 2N2643		+	-	2SC 1583		_		AVE.	8,8
2N2644		1	 	2SC 1583				3,3	7
2N2044 2N2723	-			2001303		+			
2N2724		+			79	-		1.00	*
2N2724 2N2725									172
_	2SA467					2SA 559		S 10 10 10 10 10 10 10 10 10 10 10 10 10	
2N2894	2SA467 2SA467					2SA559	2000		1/015
2N2894A		15 15		-	_ 1	2SA559 2SA559	102	4.2 (4.19.4)	
2N3012	2SA467					20A000	The state of the s		

		AL	Y	MA	XIMUN	A RA	ATINGS						EU	CTRICAL	CHAR	ACTERI	STICS				_	OUTLINE	
TYPE	USE	MATERI	POLALIT	Pc 25*C	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	la	-	- sala	hre	1./4\	hfe	hie (Ω)	hre_ (×10)	hoe (μδ)	fr *fae **fap	NF (dB)	Cob (pF)	Coxrbb'	TO.	NOTE
ella terr				(mW)					(µA)	Vos(V)	min.	max.	ic(mA)	_			1,-0,	(MHz)	-	5		18	-
N3209	SH	S	P	360	200	20	20	200			30	-	30		-	-		-	-	8	-	5	
N2904	A/S	S	P	600	200	60	40	600	20n	50	30	-	150			-	-	-		8	-	5	
N2905	A/S	S	P	600	200	60	40	600	20n	50	140		150			-			_	-	-	_	_
N2906	A/S	S	P	400	200	60	40	600	20n	50	00		150			-	-	-		8	-	18	
2N2907	A/S	S	Р	400	200	60	40	600	20n	50	140	_	150						- 2	8	-	18	
PN2904	A/S	S	Р	625	150	60	40	600	20n	50	00	-	150							8		92	
PN2905	A/S	S	Р	625	150	60	40	500	20n	50	140	300	150							8		92	
PN2906	A/S	S	Р	625	150	60	40	500	20n	50	00	120	150							8	-	92	
PN2907	A/S	S	Р	625	150	60	40	600	20n	50	140	300	150				- 10			8		92	
2N2904A	A/S	S	P	600	200	60	60	600	10n	50	00	120	150							8		5	
2N2905A	A/S	S	Р	600	200	60	60	600	10n	50	140	300	150							8		5	
2N2906A	A/S	S	P	400	200	60	60	600	10n	50	00	120	150							8		18	
2N2907A	A/S	S	Р	400	200	60	60	600	10n	50	140	300	150							8		18	
PN2904A	A/S	S	P	625	150	60	60	600	10n	50	00	120	150					1,7,-1		8		92	
PN2905A	A/S	S	P	625	150	60	60	600	10n	50	140	_	150							8		92	
PN2906A	A/S	S	P	625	150	60	60	600	IOn	50	00	_	150							8		92	
PN2907A	A/S	S	P	625	150	60	60	600	10n	50	140	-	150					1		8		92	
2N2913	A	S	N	500	200	45	45	30	10n	45	00	-	.01		-	1		1	4	6	_	5	
2N2913 2N2914	-	S	N	500	200	45	45	30	10n	45	160	-	.01					1	3	6	+	5	
	A	-	-	-	-	-	-	-	_	-	+	-	.01			1	l .	+	4	6	-	18	
2N2972	A	S	N	300	200	45	45	30	10n	45	50	-	.01	-				-	3	6	+	18	
2N2973	A	S	N	300	200	45	45	30	10n	45	160	-				-	-	+	-	6	+	5	
2N2915	Α	S	N	500	200	45	45	30	10n	45	50	-	.01			-	-	-	4	-			
2N2915A	Α	S	N	500	200	45	45	30	10n	45	60	-	.01			-			4	6	_	5	
2N2919	Α	S	N	500	200	60	60	30	2n	45	60		.01				-	-	4	6	4	5	
2N2919A	Α	S	N	500	200	60	60	30	2n	45	60	-	.01						4	6		5	
2N2974	Α	S	N	300	200	45	45	30	10n	45	60	240	.01						4	6		18	74
2N2978	A	S	N	300	200	60	60	30	2n	45	60	240	.01						4	6		18	
2N2916	A	S	N	500	200	45	45	30	10n	45	160	600	.01						3	6		5	
2N2916A	A	S	N	500	200	45	45	30	10n	45	150	600	.01						3	6		5	
2N2920	A	S	N	500	200	60	60	30	2n	45	150	600	.01						3	6		5	
2N2920A	Α	s	N	500	200	60	60	30	2n	45	150	600	.01						3	6		5	
2N2975	A	s	N	300	200	45	45	30	10n	45	150	600	.01						3	6		18	100
2N2979	A	S	N	300	200	60	60	30	2n	45	150	-	.01						3	6		18	
2N2917	A	S	N	500	200	45	45	30	10n	45	50	-	-			1			4	6		5	
2N2918	A	S	N	500	200	45	45	30	100	45	160	+	-						3	6		5	
2N2976	A	S	N	300	200	45	45	30	10n	45	50	_	_			+-	1		4	6		18	
2N2975 2N2977	A	S	N	300	200	45	45	30	10n	45	160	+	-			+		+	3	6	+	18	
	-	-	-	-	_	-	-	200	1011	40	50	-	-	1		+	-	+-	-	5	+	18	
2N3009	S	S	N	360	200	40	15	+	-	-	30	_	-	-	-	+	-	+		5	+	18	
2N3013	S	S	N	360	200	40	15	200	-	+	-	-	-	-		+		+-		5	+-	18	
2N3014	S	S	N	360	200	40	20	200	-	+	30	_	_			+-		+	-	4	+	18	
2N3011	S	S	N	360	200	30	12	200	1		30	-		100				1		_	+	_	
2N3019	Α	S	N	800	200	140	80	IA	_	90	100	-	-	120			-	-	4	12	-	5	-
2N3020	Α	S	N	800	200	140	80	IA	10n	90	40	-	-	240		1	-	+-		12	-	5	-
2N3053	Α	S	N		200	60	40	700			50	+	_			-		-	_	15	4-	5	<u></u>
2N3054	Р	S	N	25W	200	90	55	4A			25	_	_	100								66	
2N3055	Р	S	N	115W	200	100	60	15A			20	70	4A	80								3	
2N3107	A/S	S	N	800	200	100	60		10	60	00	300	150						7	20		5	
2N3108	A/S	S	N	800	200	100	60		10	60	140	120	150						7	25		5	
2N3109	A/S	-	N	800	200	80	40	10	10	60	00	300	150						7	20		5	-1
2N3110	A/S	S	N	800	200	80	40		10	60	40		-						7	25		5	
2N3117	A	s	N	360	200	60	60	50	10n	45	250	_				1	1			4.5		18	
2N3117 2N3137	A	S	N	600	200	40	20	150	50n	20	20	-	-						1	3.5	_	5	
2N3250	A/S	-	P	300	200	50	40	200	3011	20	50	+-	-	†				250	6	6		18	
	A/S	-	P	625	150		40	-	-	-	50	-	+	-		+	+	250	6	6		92	
PN3250				1 0/3	I I DU	50	40	200	1		1 3	JIJU	10	1		1		1 230	U	0		1 26	1

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU -	SONY	SANYO	NOTE
2 N 3209						2SA559			
2 N 2904	2SA512	2SA571			2SA546		V .		
2 N 2905	2SA512	2SA571			2SA546	1			
2 N 2906	2SA512	2SA571			2SA546				-
2 N 2907	2SA512	2SA571			2SA546				
PN2904	2SA512	2SA571			2SA546				
PN 2905 ·	2SA512	2SA571			2SA546				
PN2906	2SA512	2SA571			2SA546				
PN2907	2SA512	2SA571			2SA546				
2N2904A	2SA512	2SA571			2SA546				
2 N 2905 A	2SA512	2SA571			2SA546				
2 N 2 9 0 6 A	2SA512	2SA571			2SA546				
2 N 2 9 0 7 A	2SA512	2SA571			2SA546				1
PN 2904 A	2SA512	2SA571			2SA546				1000
PN2905A	2SA512	2SA571			2SA546				
PN2906A	2SA512	2SA571			2SA546				
PN2907A	2SA512	2SA571			2SA546				1
2N2913		•		2SC 1583					
2 N 29 I 4				2SC 1583					
2N2972		14		2SC 1583				-	
2N2973 .				2SC 1583	N				100
2N2915				2SC 1583					
2N29I5A				2SC 1583		J. S. C.			1
2N2919				2SC 1583	CAN BE SAT	1 100	100		
2N2919A				2SC 1583	1. 1.	1334			
2 N 2974				2SC 1583		1142.55			
2 N 2 9 7 8			2 2	2SC 1583			IT .		100
2N2916				2SC1583					
2N2916A				2SC 1583					-
2N2920				2SC 1583					
2N2920A				2SC 583					-
2N2975		les services		2SC 1583					
2N2979				2SC 1583					
2N2917				2SC 1583					
2N2918				2SC 1583					1
2 N 2 9 7 6				2SC 1583					
2N2977				2SC 1583					
2 N 3009			2SC 479			2SC233			
2N3013			250479		100	2SC 233	1		
2N3014			2SC479			2SC233			
2N3011		1250000	2SC 1385			2SC 233			1000
2N3019		-	2SC 936	-			2SC 867		100
2N3020			2 SC 936		-		2SC 867	NA ,	- 6
2N3053		2SC 781		2SC775	1		-0004		1
2N3054		2SD188					2SD88		1
2 N 3 0 5 5		2SD181							1
2N3107	2SC 485	2SD328			-		-		1 50
2N3108	2SC 485	2SD328				1			1
2N3109	2SC 485	2SD328		-					224
2N3110	2SC485	2SD328							-10-20
2N3117		2SC 1400		1-00			-		77.00
2N3137				2SC 304			-04:		15/4/8
2N3250		2SA718	-	1		100	2SA678	1.35	
PN3250		2SA718	1	1			2SA678		
2N3250A		2SA718					2SA678	1 1 1 1 1 1	3000

		₹	7	_	AXIMU	M K	ATING	S	-		г		EI	ECTRICA	L CHAR	AUTEM.	121102		_	110	_	OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25°C (mW)	Tj (°C)	Vca (V)	VCEO (V)	Ic (mA)	(μA)	Vce(V)	min.	max.	ic(mA)	hfe	hie (Ω)	hre (×10)	hoe (ルで)	*fae **fao (MHz)	NF (dB)	Coh (pF)	Coxrbb'	TO.	NOTE
2N3251	A/S	S	Р	360	200	50	40	200	()4/1/	100(1)	100		10			-		250	6	6		18	1 7/2
PN3251	A/S	S	P	625	150	50	40	200	-	-	100	-	10	_				250	6	6	-	92	- 17
2N3251A	A/S	S	Р	360	200	60	60	200		-	100		10					250	6	6	-	18	-
	-		Р		M-03-0	-		-	-	-	100	-	-		-	-		250	_		-	92	
PN3251A	A/S	S	-	625	150	60	60	200			100	300	10		-			250	6	6	-		- 114
2N3409	Α	S	N		230	60	30	500	10n	50	_	-			10	_			4	8	-	5	1.8
2N3410	Α	S	N		230	60	30	500	10n	50	_								4	8	-	5	- 10
2N3411	Α	S	N		230	60	30	500	10n	50									- 4	8		5	- 2
2N3423	Α	S	N	450	200	30	15	50	10n	15		200	3					600	3.5	1.7	_	5	0.0
2N3224	Α	S	N	450	200	30	15	50	10n	15	20		3					600	3.5	1.7	_	5	
2N3439	Р	S	N	IW		450	350	500	. 20	360	40		20							10	-	5	
2N3440	Р	S	Ν	IW		300	250	500	20	250	40	-	20							10		. 5	200
2N3467	S	S	Р	5W	200	40	40	IA-	0.1	30	40	1	500							25		5	
2N3468	S	S	Р	5W	200	50	50	IA	0.1	30	25	-	500							25		5	
2N3563	A	S	N	200	125	30	12	50	50n	15	20	200	8	180						1.7		18	
MPS3563	Α	S	Ν	625	150	30	12	50	50n	15	20	200	8	180						1.7		92	
2N3564	Α	S	N	200	125	30	15	100	50n	. 15	20	200	15									18	
2N3565	Α	S	N	200	125	30	25	50	50 n	25	150	600	- 1	450						4		18	
PN3565	Α	S	N	625	150	30	25	50	50n	25	150	600	E	450						4		92	
2N3566	Α	S	N	300	125	40	30	200	'50n	20	150	600	10							25		5	
PN3566	Α	S	N	625	150	40	30	200	50n	20	150	600	10							25		92	
2N3567	Α	S	N	300	125	80	40	100	50n	40	40	120	150	16								5	
PN3567	A	S	N	625	150	80	40	100	50n	40	40	120	150	16								92	
2N3568	A	S	N	300	125	80	60	100	50n	40	40	-	150	16								5	
PN3568	A	S	N	625	150	80	60	100	50n	40	40	120	150	16		-						92	
2N3569	A	S	N	300	125	80	40	100	50n	40	100	300	150	16								5	
PN3569	A	S	N	625	150	80	40	100	50n	40	100	_	150	16	_	1			_		1	92	
2N3638	A/S	S	P	700	125	25	25	500	5011	-10	20	000	10	25	2000	2600	1200			20	+	5	
2N3638A	A/S	S	P	700	125	25	25	500			100	-	10	100	2000	2000	1200			10	1	5	
MPS3638	A/S	S	P	1W	150	25	25	500			20	-	10	100	1500	2600	1200	-	-	20	+-	92	
MPS3638A	A/S	S	P	IW	150	25	25	500	_	-	100	-	10	100	2000	-		-	-	10	-	92	
2N3639	SH	S	P	200	125	6	6	80		-	30	120	10	100	2000	1300	1200	-	-	3.5	1	18	
MPS3639	SH	S	P	625	-	6	6	80	-		30		10					-	-	3.5	-	92	
	-	_	P	200	150	12	12	80			30	-	10		-			-	-	3.5	+	18	
2N3640	SH	S	P	_			_	80			30	-	10			-				3.5	-	92	
MPS3640	S	S	\vdash	625	150	12	12			-	-	-		-		-		-			-	5	
2N3641	Α	S	N	350	125	60	30	500		-	40	-	150		-	-			-	8	-	-	
PN3641	A	S	N	625	150	60	45	500		-	40	-	150		1	-		-		8	+	92	
2N3642	Α	S	N	350	125	60	30	500			40	-	150			-			-	. 8	-	5	
PN3642	A	S	N	625	150	60	45	500			40	-	150	200		-	,	,	-	8	-	92	
2N3643	Α	S	N	350	125	60	30	500			100	-	150		-		_			8	-	5	
PN3643	A	S	N	625	150	60	45	500		-	100		150							8	-	92	
2N3644	A/S	S	Р	300	125	60	60	500			80	240	50	A.	-	<u> </u>	11			8	-	5	
PN3644	A/S	S	Р	625	150	45	45	500	_		80	-	50				_	ļ		8	-	92	
2N3645	A/S	S	P	300	125	60	60	500			80	-	50		1	- 1				8	-	5	-
PN3645	A/S	S	Р	625	150	45	45	500			80		- 50					<u> </u>		8	1	92	
2N3646	S	S	Ν	200	125	40	15	200			30		30							5		18	
MPS3646	S	S	Ν	625	150	40	15	200			30	-	30							5	1	. 92	
2N3688	À	S	N	200	125	40	40		50 n	20	30		4						5.5	1.6		18	
PN3688	Α	S	N	625	150	40	40		50n	20	30		4						5.5	1.6		92	
2N3689	A'	S	N	200	125	40	40		50n	20	30		4						5.5	1.6		18	
PN3689	Α	S	N	625	150	40	40		50n	20	30		4						5.5	1.6		92	
2N3690	Α	S	Ν	200	125	40	40		50n	20	30		4						5.5	1.6		18	
PN3690	Α	S	N	625	150	40	40		50n	20	30		4						5.5	1.6		92	
SE5006	Α	S	N						50n	20	30		4							1.6		18	100
2N3693	A	S	N	200	125	45	45	30	50n	30	40	160	10						4	6	1	18	
MPS3693	A	S	N	625	150	45	45	30	50n	35	40	-	10					1	4	3.5		92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3251		2SA718					2SA678	İ	
PN3251		2SA718		_			2SA678		+
2N3251A		2SA718					2SA678	†	
PN3251A		2SA718					2SA678	1	+
2N3409									DUAL
2N3410					-			ļ	DUAL
2N3411								1	DUAL
2N3423									DUAL
2N3424									DUAL
2N3439								1	
2N3440									
2N3467					- 1	2SB456		1	
2N3468						2SB456		1	
2N3563		1.6							-
MPS3563									1
2N3564		1				2SC54			100
2N3565	2SC560			1		2SC560		†	1
PN3565	2SC560	1				2SC560		1	
2N3566	2SC560					2SC560			
PN3566	2SC560			_		2SC560 ·			1
2N3567	2SC560				u .	2SC560			
PN3567	2SC560					2SC560		1	
2N3568	2SC560					2SC560			
PN3568	2SC560				,	2SC560	1		12
2N3569	2SC560					2SC560		<u> </u>	+
PN3569	2SC560					2SC560			
2N3638	2SA682	2SA717		-			1 .		1
2N3638A	2SA682	2SA717							
MPS3638	2SA682	2SA717						1	1
MPS3638A	2SA682	2SA717							+
2N3639		2SA552						2SA532	1
MPS3639		2SA552						2SA532	1
2N3640		2SA552						2SA532	
MPS3640		2SA552						2SA532	
2N3641	2SC503			-		2SC189	b	1	1 3 3 3
PN3641	2SC503					2SC189		+	111
2N3642	2SC503					2SC189		-	1
PN3642	2SC503			1 19		2SC189			-
2N3643	2SC503			-		2SC189	†	1	1.33
PN3643	2SC503	1 2 0		+	- 7	2SC189		1	-
2N3644		2SA712		+			1	2SA532	1 2
PN3644		2SA712		†	-			2SA532	1
2N3645		2SA712		-				2SA532	
PN3645	-	2SA712						2SA532	
2N3646				2SC307		2SC216		1-2.002	1133
MPS3646			c	2SC307		2SC216			1
2N3688	2SC594	2SC594		2SC594		2SC238			1.7
PN3688	2SC594	2SC594		2SC594		2SC238			170
2N3689	2SC594	2SC594	-	2SC594	1	2SC238			1
PN3689	2SC594	2SC594		2SC594		2SC238	1	+	1/1 (4)
2N3690	2SC594	2SC594		2SC594		2SC238	7 7		-
PN3690	2SC594	2SC594		2SC594		2SC238	-		1 100
SE5006	2SC594	2SC594		2SC594		2SC238			+
2N3693	200034	200004		2SC394 2SC305	-	2SC247	· ·	-	1 50
MPS3693				2SC305 2SC305	-	2SC247	-	+	37 117
INIC 22033				250305		230241	1		

		¥	=	M/	XIMU	M R	ATINGS						EL	ECTRICA	L CHAR	ACTERI	STICS					OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25°C	Ti	Vcs	VCEO	Ic	les		_	hre		hfe	hie	hre	hoe	*fae	NF (+D)	Cób	Coxrbb	TO.	NOTE
				(mW)	(.c)	(V)	(V)	(mA)	(µA)	Voe(V)	min,	111 Acces	Ic(mA)	- 1	(Ω)	(×10)	(µō)	**fap (MHz)	(dB)	(pF)	(ps)		
2N3694	A	S	N	200	125	45	45	30	50n	30	100	400	10						4	6	1	18	
MPS3694	A	S	N	625	150	45	45	30	50 n	35	100	400	10						4	3.5		92	
2N3700	Α	S	N	500	200	140	80	IA	10n	90	100	300	150	240					4	12	1_	18	
2N3701	Α	S	N	500	200	140	80	IA	10n	90	40	120	150	120						12	_	18	- 3
2N3713	P	S	N	150W		80	60	10A			25	75	IA.	140						250		3	
2N3714	P	S	N	150W		100	80	10A			25	75	IA	140						250		3	
2N3715	P	S	N	150W		80	60	IOA			50	150	IA	140			-			250		3	. 9
2N3716	Ь	S	Ŋ	150W		100	80	10A			50	150	IA	140						250		3	
2N3722	S	S	N	800	200	80	60	IA			40	150	100							10		5	
FT3723	S	S	N	800	200	100	70	IA			40	150	100							9		5	
2N3724	SH	S	N	800	200	50	30	IA	1.7	40	60	150	100							12		. 2	
2N3725	SH	S	N	800	200	80	50	IA	1.7	60	60	150	100							10		5	
2N3726	Α	s	Р	500	200	60	60	300	10n	30	135	350	1	230	11.5	1.5	80		4	8		5	
2N3727	Α	S	P	500	200	60	60	300	1 0 n	30	135	350	- 1	230	11.5	1.5	80		4	8		5	
2N3728	Α	S	N	550	200	60	30	500	1 0 n	50	45	180	1		3.5	300	20		7	8		5	
2N3729	Α	S	N	550	200	60	30	500	10n	50	45	-	1		3.5	300	20		7	8		5	
2N3740	P	S	Р	25W	200	60	60	IA	0.1	60	30	1	250	25			-			100		66	
2N3741	P	S	P	25W	200	80	80	IA	0.1	80	30	100	250	25			-			100		66	
2N3766	P	S	N	20W		80	60	4A	0.1	80	40	160	500	40						30		66	
2N3767	P	S	N	20W		100	80	4A	0.1	100	40	160	500	40	_		_			30		66	
2N3789	P	S	Р	150W	-	60	60	10A	0.1	100	25	90	IA	140	1.0					500		3	_
2N3790	P	S	P	150W		80	80	IOA			25	90	IA	140				-	-	500	1	3	_
2N3791	P	S	P	150W		60	60	10A	_		50	180	IA	140			_		-	500		3	
2N3792	P	S	P	150W	-	80	80	IOA		-	50	180	IA	140	_	-	-			500	+	3	_
2N3800	A	S	P	360	200	60	60	50	10n	50	150	450	1	380	30	25	60		3	4	-	18	_
2N3801	A	S	Р	360	200	60	60	50	10n	50	300		1	600	40	25	60		1.5	4	_	18	_
2N3802	A	S	P	360	200	60	60	50	10n	50	150	-	-	380	30	25	60		3	4	+-	18	
2N3803	A	S	Р	360	200	60	60	50	10n	50	300	-	1	600	40	25	60		1.5	4	+-	18	
2N3806	A	S	P	600	200	60	60	50	10n	50	150	-	1	380	30	25	60		3	4	+	5	
2N3807	A	S	P	600	200	60	60	50	10n	50	300	-	1	600	40	25	60		1.5	4		5	
2N3807 2N3808	A	_	Р	600	200	60	60	50	10n	50	150		1	380	30	25	60		3	4		5	
2N3809	A	S	P	600	200	60	60	50	10n	50	300	_	1	600	40	25	60		1.5	4	+	5	
	-	-	P		-	-		50		50	_	-	_		30	25	-		3	4		18	
2N3804	A	S	P	360	200	60	60		10n	-	150	-	- !	380	-	-	60		3	_		18	
2N3804A	Α	S	Р	360	200	60	60	50	10n	50	150	-	1	380	30	25	60			4	+	18	
2N3805	A	S	<u> </u>	360	200	60	60	50	10n	50	300		1	600	40	25	60		1.5	4	+	18	
2N3805A	Α	S	P	360	200	60	60	50	10n	50	300	-	1	600	40	25	60			_			
2N3810	A	, S	P	600	200	60	60	50	10n	50	150	-	1	380	30	25	60		3	4	-	5	
2N3810A	A	S	P	600	200	60	60	50	10n	50	150	-	1	380	30	25	60		3	4		5	
2N3811	A	S	P	600	200	60	60	50	10n	50	300	-	-	600	40	25	60		1.5	4	-	5	
2N3811A	A /0	S	P	600	200	60	60	50	10n	50	300	900	1	600	40	25	60	056	1.5	4	+-	5	
2N3903	A/S	S	N	625	150	60	40	200		-	50	150	10	125	8	5	40	250	6	4	-	92	
2N3904	A/S	S	N	625	150	60	40	200	_	-	100	300	10	250	10	8	40	300	5	4	+	92	-
2N3905	A/9		Ŀ	625	150	40	40	200		-	50	-	10	125	8	5	40	200	5	4.5	+	92	
2N3906	A/S	S	Р	625	150	40	40	200		1.00	100	_	10	250	12	10	60	250	4.	4.5	_	92	
2N3923	A	S	N	800	200	150	150	100	10n	100	30	120	25	20	<u> </u>			40	-	3.5	_	5	
2N3946	A/S	S	N	360	200	60	40	200	_	-	50	100	10	150	6	10	30		5	4	_	18	
2N3947	A/S	S	N	360	200	60	40	200	-	ļ	100	300	10	400	12	20	50		5	4		18	
2N3962	Α	S	Р	360	200	60	60	200		_	100	450	1	330	17	10	40		4	6		18	
2N3964	Α	S	Ρ	360	200	45	45	200			250	-	- 1	470	20	10	50		4	6		18	
2N3965	Α	S	Р	360	200	60	60	200		<u> </u>	250	_	I	470	20	10	50		4	6		18,	
2N4013	SH	S	N	360	200	50	30	500	1.7	40	60		100							12		18	
2N4014	SH	S	N	360	200	80	50	500	1.7	60	60	-	100							10		18	
2N4015	Α	S	Р	500	200	60	60	300	10n	50	135	+	- 1	260	11.5	1.5	80		4	8		5	
2N4016	Α	S	Р	500	200	60	60	300	10n	50	135	350	1	260	11.5	1.5	80	<u></u>	4	8		5	
2N4017	Α	S	Р	600	200	80	80	200	10n	70	100	500		330	17	10	40		10	6		5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N3694		,		2SC305		2SC247			
MPS3694				2SC305		2SC247			
2N3700									
2N3701	1								
2N3713	2SD113					2SD54			
2N3714	2SDI13					2SD54			
2N3715	2SDI13			1		2SD54	100		
2N3716	2SDI13					2SD54			
2N3722		2SD78					2SC756		
FT3723		2SD78					2S0756		
2N3724		2SD78				g)		2SD330	
2N3725		2SD78							
2N3726									DUAL
2N3727							1		DUAL
2N3728								-	
2N3729									
2N3740	2SB502				2SB128				
2N3741	2SB502				2SB128				
2N3766		2SD73					2SD47		
2N3767	-	2SD73		1			2SD47		
2N3789	2SB554			<u> </u>					
2N3790	2SB554	-							15 17
2N3791	2SB554		-						-
2N3792	2SB554					7. 15. 7.5	100		
2N3800	20001	-			7,337	SI 37 56			DUAL
2N3801						- No. 1	114		DUAL
2N3802						7			DUAL
2N3803					-				DUAL
2N3806									DUAL
2N3807				1					DUAL
2N3808							1		DUAL
2N3809								1	DUAL
2N3804								1	DUAL
2N3804A							†		DUAL
2N3805			-						DUAL
2N3805A									DUAL
2N3810	-				-				DUAL
2N3810A		-			-		·	1	DUAL
2N3811	-	_							DUAL
2N3811A	-			-					DUAL
2N3903	2SC482				 	2SC46	-	2SC875	
2N3903 2N3904	2SC482	 			+	2SC46		2SC875	1.
2N3904 2N3905	2SA5Q1	+	2SA673		2SA546	20040		2000.0	
2N3905 2N3906	2SA501	-	2SA673 2SA673		2SA546			+	1
2N3906 2N3923	23A3U1	-	2SA673 2SC154A		20/1040	-	1	1	1
2N3923 2N3946	2SC108A	-	230134A		_		2SC632A	-	
	2SC108A 2SC108A	-			+		2SC632A	1	
2N3947	230108A	+			-		2SA705		
2N3962					- -		2SA705		+
2N3964		+			_		2SA705		
2N3965		20072		-	+		20A/03	2SD330	1200
2N4013		2SD78		-	+		-	230330	-
2N4014	-	2SD78		-	-		+		DUAL
2N4015	ļ	-			-		 		DUAL
2N4016	 	+							DUAL
2N4017	1								DUAL

		SIAL	T	_	IAXIMU	M	RATIN	iS			_	-	E	LECTRIC	AL CHAI	RACTER	ISTICS	1				OUTURE	
TYPE	USE	MATER	POLAUTY	Pc 25°C (mW)	Tj (°C)	Vcs (V)	Voice (V)		(μA)	Vos(V) min.	max.	lc(mA)	hfe-	hie (Ω)	hre (×10)	hoe (μδ)	*fae **fae (MHz)	NF (dB)	Cob (pF)	Coxrbb (ps)	TO.	NOT
2N4018	A	S	P	600	200	45	45	200	10n	50	-		ic (iii,x)	400	20	10	50	(MHz)	10	6	()407	5	
2N4019	A	S	P	600	200	45	-	200	10n	30	-		i	480	20	10	50	-	4			-	_
2N4020	A	S	P	600	200	45	-	200	10n	30	-	-	-	480	20	10	50	-	2	6	-	5	_
2N4021	A	S	P	600	200	60	-	200	10n	50	-	-	 	330	17	10	40	-	3	6	-	5	
2N4022	A	S	Р	600	200	60	-	200	10n	50		-	<u> </u>	480	20	10	50	+	2	6		5	_
2N4023	A	S	P	600	200	45	45	200	10n	30	_	600	Ė	480	20	10	50	+	2	6	-	5	
2N4024	A	S	P	600	200	60	60	200	10n	50	-	500	ΤĖ	330	17	10	40	1	3	6	+	5	
2N4025	A	s	Р	600	200	60	60	200	10n	50	_	600	i	480	20	10	50	+	2	6	+	5	-
2N4030	A	S	P	800	200	60	60	IA	50n	50		120	100	100	20	10	30			0	+	5	
2N4031	A	S	P	800	200	80	80	IA	50n	60	_	120	100		-	1					+	5	
2N4032	A	S	Р	800	200	60	60	IA	50n	50	-	300	100		_	+		-		_	+	5	
2N4033	A	S	Р	800	200	80	80	HA	50n	60	100	300	100			 		-			-	5	
2N4034	A/S	S	Р	360	200	40	40	100	0011	- 00	70	200	10	_	8	3	24	400	6	-	-	18	
2N4035	A/S	S	Р	360	200	40	40	100		-	150	300	10	_	12	4	40	400	6		-	18	
2N4046	SH	S	N	800	200	50	30	500	1.7	40	60	150	100			-	40	400	-	12	-	5	
2N4047	SH	S	N	800	200	80	50	500	1.7	60	60	150	100	-	-	-		-		10		5	
2N4121	A/S	S	Р	200	125	40	40	100		00	70	200	100		8	3	24	450	6	10		18	
2N4122	A/S	S	P	200	125	40	40	100			150	300	10		12	4	40	450	6	_		18	
2N4123	A/S	S	N	625	150	40	30	200	50n	20	50	150	2	125	12	-	40	450	6			92	
2N4124	A/S	S	N	625	150	30	25	200	50n	20	120	360	2	250	-			-	5			92	
2N4125	A/S	S	Р	625	150	30	30	200	50n	20	50	150	2	125					5			92	
2N4126	A/S	S	Р	625	150	25	25	200	50n	20	120	360	2	250	-				4			92	
2N4208	SH	S	Р	300	200	12	12	50	0011	-	30	120	10	. 250				850	4	3		18	
2N4209	SH	S	Р	300	200	15	15	50			50	120	10					850		3		18	
2N4234	Р	S	Р	6W		40	40	IA	100	40	30	150	250	25				650		100		5	
2N4235	Р	S	Р	6W	-	60	60	IA	100	60	30	150	250	25						100		5	
2N4236	Р	S	Р	6W		80	80	IA	100	80	30	150	250	25				-		100		5	
2N4237	Р	S	N	800		50	40	IA	100	50	30	150	250	30				-		100		5	
2N4238	Р	S	N	800		80	60	IA	100	80	30	, 00	500	30						100		5	
2N4239	Р	S	N	800		100	80	IA	100	100	15		IA	30						100		5	
N4248	A	Š	Р	200	125	40	40		10n	40	50	_	0.1	525		 				100		18	
N4248	A	S	Р	625	150	40	40		I0n	40	50	-	0.1	525		H					-	92	
N4249	Α	S	Р	200	125	60	60		10n	40		300	0.1	325	17	10	40		3	6		18	
N4249	Α	S	Р	625	150	60	60	_	10n	40		300	0.1	325	-17	10	40		3	6	_	92	
N4250	A	S	Р	200	125	40	40		10n	40		700	0.1	525	20	10	50		2	6	\dashv	18	
N4250A	А	S	Р	200	125	60	60		10n	50	_	700	0.1	525	20	10	50		2	6		18	
N4250-	Α	S	Þ	625	150	40	40		I0n	40	_	700	0.1	525	20	10	50		2	6	\dashv		
N4250A	A	\rightarrow	P	625	150	60	60		10n	50		700	0.1	525	20	10	50		2	6	-	92 92	_
N4258	SH	S	Р	200	125	12	12	50				120	10					\vdash	-	U		18	
N4258A	SH	s	Р	200	125	12	12	50		\dashv		120	10			-4					\dashv	18	
N4258	SH	s	P	625	150	12	12	50			$\overline{}$	120	10	Ą		-					-	92	
N4258A	SH	S	P	625	150	12	12	50		$\neg \dagger$		120	10	-	\neg	\vdash			_			92	
N4264	SH	S	N	IW	150	30	15	200		_		160	10	-				300			\rightarrow	92	
N4265	SÀ	S	N	IW	150	30	12	200		\dashv	_	400	10	-		-		300	-		\dashv	92	
N4274	SH	s	N	200	125	30	12	500	10	20		-				-		400				18	
N4275	SH	s	N	200	125	40	15	500	10	20		_		_		\dashv	-	400	\dashv	-	\rightarrow	18	
N4342	FET	s	T	200	125	\neg		\dashv						\dashv	-	+		700	5	-+		18	
N4343		s	\exists	200	125	\neg				\dashv		\dashv	-	-	-	-+	-		1.5	-+	\dashv	18	
N4354	Α	s	Р	350	125	60	60	500	50n	50	50	500	10			$^{+}$			3		\dashv	5	
APS4354		\rightarrow	P	625	150	60	60	500	50n	$\overline{}$	_	500	10	`	-+	+			3		\dashv	92	
N4355		\rightarrow	Р	350	125	60	60	500	50n		$\overline{}$	400	10	$\overline{}$		+	-		3		\rightarrow		
APS4355	-	_	P	625	150	60	60	500	50n		_	400	10		\rightarrow	+			3		\dashv	5	
N4356	\rightarrow		P	350	125	80	80	500	50n	50	-	250	10	-	\dashv	+	-	-	3	. +	\dashv	92	
APS4356		\rightarrow	P	625	150	80	80	500	50n	50	\rightarrow	250	10	-	-	\dashv			-	-	\dashv	5	
		- 1	- 1		0		-0	200	5011	JU	JU	- JU	10				- 1		3		- 1	92	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N4018									DUAL
N4019									DUAL
N4020									DUAL
N4021	-							-	DUAL
2N4022									DUAL
2N4023		121							DUAL
2N4024									DUAL
2N4025			T						DUAL
2N4030	2SA484	2SB504			2SA546A				
2N4031	2SA484	2SB504			2SA546A	V			
2N4032	2SA484	2SB504			2SA546A				
2N4033	2SA484	2SB504	-		2SA546A				
2N4034	2SA504		2SA537			2SA523			
2N4035	2SA504		2SA537			2SA523			
2N4046		2SD78				7.			
2N4047		2SD78							
2N4121	2SA504		2SA537			2SA523			
2N4122	2SA504		2SA537			2SA523			
2N4123	2SC109	-	2SC112			2SC189			
2N4124	2SC109		2SC112			2SC189			
2N4125		2SA552						2SA532	
2N4126		2SA552						2SA532	11.
2N4208				2SA696			2SA678		
2N4209				2SA696	1.		2SA678	E 9.	
2N4234					2SB449	2SB456	100	2SB474	
2N4235					2SB449	2SB456	1977	2SB474	
2N4236			-	1.00		2SB456	31.77	2SB474	
2N4237		2SD79	2SD121		2SC697	2SD183			1 36
2N4238		2SD79	2SD121		2SC697	2SD183			21 34
2N4239		2SD79	2SD121		2SC697	2SD183			
2N4248	2SA493	200.0							
PN4248	2SA493			1					L
2N4249	EUATO								
PN4249		1	+						100
2N4250							1917		Title (s
2N4250A	2SA493	-					0.00		
PN4250	2SA493	-	-						1
PN4250A	2SA493		-						
2N4258	20A433	2SA712	2SA548	2SA458		2SA559	1		
2N4258A	-	2SA712	107040	20///00					7
PN4258		2SA712	2SA548	2SA458		2SA559		1	
PN4258A	_	2SA712	20/040	20,1400		-			-
2N4264		ZUATIZ	+	1	2SC827	2SC849			
2N4265		-	_		2SC827	2SC849		1 -	
2N4274	-	2SC1071	2SC321		EGGGE,	2SC1071			
2N4274 2N4275		2SC1071	2SC321	-		2SC1071		_	
2N4275 2N4342		23010/1	230321	-		200.0.1	-		FET
and the second second		-	+		_				1.012
2N4343	2SA560	2SA606	-	+	10	2SA581			5000
2N4354		2SA606 2SA606				2SA581	+		122940
MPS4354	2SA560	2SA606 2SA606	+ -			2SA581	-	1	15.27.41
2N4355	2SA560			+		2SA581			
MPS4355	2SA560	2SA606	+			20A301			1 - 2
2N4356	2SA560	2SA606					-	+	1
MPS4356	2SA560	2SA606			-		+	-	3 0
2N4398	1								E-Mark

		MA	E		AXIMU	M h	RATING	S			_		EL	ECTRICA	L CHAF	RACTERI	ISTICS					OUTLINE	
TYPE	USE	MATER	POLALITY	Pc 25°C	Tj (°C)	Vcs (V)	VCEO (V)	lc (mA)	le le	_		hre		hfe	hie (Q)	hre (×10)	hoe (සුතු)	fr *fae **fap	NF (dB)	Cob (pF)	Coxrbb	TO	NOT
2N4399	P	S	P	(mW)	(0)				(µA)	Vos(V)	min.	max.	-		(52)	(>10)	(μο)	(MHz)	(08)	(pr)	(ps)		
2N4400	-	-	-	COF	150	60	60	30A	1000	60	15	-	15A	40						_		- 3	
	A/S	-	N	625	150	60	40	-		_	50	-	150	130	7.5	8	30	200			_	92	
2N4401	A/S	-	N	625	150	60	40	-		_	100		150	270	15	8	30	250				92	
2N4402	A/S	-	P	625	150	40	40	600			50		150	190	7.5	8	100	150				92	
2N4403	A/S	_	Р	625	150	40	40	600			100	-	150	280	15	8	100	200				92	
2N4409	1	S	N	625	150	80	50	250	10n	60	60	-	10									92	
2N4410	1	S	N	625	150	120	80	250	10n	100	60		10									92	
2N4888	A	S	P	300	125	150	150	100	50n	100	_	400	10		20		40			4	-	5	
PN4888	A	S	P	625	150	150	150	100	50n	100	-	400	10		20		40			4		92	
2N4889	A	S	Р	300	125	150	150	100	10n	100		300	10		12	5	25		3	4		5	
PN4889	Α	S	Р	625	150	150	150	100	10n	100	80	300	10		12	5	25		3	4		92	
2N4895	P	S	N	800	200	120	60	5A			40	120	2A							80		5	
2N4896	P	S	N	800	200	120	60	5A			100	300	2A							80		5	
2N4897	P	S	N	800	200	150	80	5A	100		40	120	2A							80		5	- X
2N4901	P	S	Р	87W	200	40	40	5A			20	800	IA	4								3	
2N4902	P	S	P	87W	200	60	60	5A			20	800	IA	4								3	
2N4903	Р	S	P	87W	200	- 80	80	5A			20	800	IA	4								3	
2N4904	Р	S	P	87W	200	40	40	5A			25	100	2.5A	4								3	
2N4905	P	S	P	87W	200	60	60	5A			25	100	2.5A	4								3	
2N4906	Р	S	Р	87W	200	80	80	5A			25	100	2.5A	4								3	
2N4907	Р	S	P	150W	200	40	40	IOA			20	80	4A	4						600		3	
2N4908	P	S	Р	150W	200	60	60	IOA			20	80	4A	4						600		3	
2N4909	P	S	P	150W	200	80	80	10A			20	80	4A	4						600		3	
2N4910	Р	S	N	25W	200	40	40	IA	100	40	20	100	500	25			100			100		66	
2N4911	Р	S	N	25W	200	60	60	IA	100	60	20	100	500	25						100		66	
2N4912	P	S	N	25W	200	80	80	IA	100	80	20	100	500	25						100		66	
2N4231	Р	S	N	35W	200	40	40	3A	50	40	25	100	1.5A	20				-		200		66	
2N4232	Р	S	N	35W	200	60	60	3A	50	60	25	100	1.5A	20						200		66	_
2N4233	Р	S	N	35W	200	80	80	3A	50	80	25	100	1.5A	20	_					200		66	_
2N4898	Р	S	Р	25W	200	40	40	IA	100	40	20	100	500	25						100		66	
2N4899	Р	S	Ρ	25W	200	60	60	IA	100	60	20	100	500	25				V		100		66	_
2N4900	Р	S	Р	25W	200	80	80	IA	100	80	20	100	500	25		1				100		66	
2N4913	Р	S	N	87W		. 40	40	5A			25	100	2.5A	20								3	
2N4914	Р	S	N	87W		60	60	5A			25	100	2.5A	20								3	
2N4915	Р	S	N	87W		80	80	5A			25	100	2.5A	20								3	
2N4916	A/S	S	Р	200	125	30	30	100	7		70	200	10					450	6			18	
PN4916	A/S	S	Р	625	150	30	30	100			70	200	10					450	6			92	
2N4917	A/S	S	Р	200	125	30	30	100			150	300	10			1		450	6			18	
PN4917	A/S	S	Р	625	150	30	30	100	-		150	300	10				,	450	6			92	
2N4960	A/S	S	N	800	200	60	60	IA	1 0 n	50	100	300	150					250	-			5	
2N4961	A/S	S	N	500	200	80	80	IA	10n	50	100	300	150	5	_	-		250				5	
2N4962	A/S	S	N	800	200	60	60	IA	10n	50	100	300	150				_	250				18	
2N4963	A/S	S	N	500	200	80	80	·IA	10n	50	100	300	150				-	250				18	
2N4002	Р	S	N	50W	200		-	5A			30	7.77	2.5A			1		60				59	_
2N5003	P	S	Р	50W	200			5A			30		2.5A			-		60				59	
2N5004	Р	S	N	50W	200			5A		_	70		2.5A			-		70	-	-		59.	
2N5005	Р	S	Р	50W	200			5A			70	_	2.5A	-				70				59	
2N5022	S	S	Р	IW	200	50	50	IA			25	100	500			+	-					5	
2N5023	S	S	Р	IW	200	30	30	IA			40	100	500			-	-	-				5	
2N5058	A	S	N	IW	175	300	300	150	50n	100	35	150	30			-	-	-				5	
2N5059	A	S	N	IW	175	250	250	150	50n	100	30	150	30	-			-		-	-	_	5	
2N5067	P	S	N	87W		40	40	5A	5011	,50	20	80	IA	20		-	-	-	-			3	
2N5068	P	S	N	87W		60	60	5A	-		20	80	IA	20		-	-	-	-		-		_
2N5069	P	S	N	87W		80	80	5A	-	_	20	80	IA	20		-						3	
	11 .	9	P	0/11		00	90	JA			20	οU	IA	20								3	

TYPE	TOSHIBA	NEC	НІТАСНІ	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2 N 4 3 9 9			-						22.0
2N4400	2SC503	2SC 1008					2SC1124		
2N4401	2SC503	2SC 1008					2SC 1124		
2 N 4 4 0 2	2SA682	2SA717			G G		4		
2N4403	2SA682	2SA717		7			1 -		
2N4409					•	1 0			11 5
2N4410									
2N4888				-					
PN4888									
2N4889									
PN 4889							to an experience	+	True St
2N4895					2SC697A		2SC 299		
2 N 4 8 9 6		1			2SC697A		2SC 299		1
2 N 4 8 9 7	_				2SC697A		2SC 299		1
2N4901	2SB555	2SB539	2SA753				2SB520	-	
2N4902	2SB555	2SB539	2SA753				2SB520		
2N4903	2SB555	2SB539	2SA753				2SB520		100
2N4904	2SB555	2SB539	2SA753				2SB520		1 40
2N4905	2SB555	2SB539	2SA753				2SB520		- 6
2 N 4906	2SB555	2SB539	2SA753				2SB520		1
2N4907	2SB554								- (9)
2N4908	2SB554						1	12	
2N4909	2SB554								
2N4910		2SD73				2SD175	2SD88		17.0
2N4911	-	2SD73				2SD175	2SD88		1176
2N4912		2SD73				2SD175	2SD88		100
2N4231		2SD73				2SD175	2SD88	1	F-12
2N4332		2SD73				2SD175	2SD88		1.55
2 N 4233		2SD73				2SD175	2SD88		1 1
2 N 4 8 9 8	2SB502				2SB128				4.5
2N4899	2SB502				2SB128		i.		- 140
2N4900	2SB502				2SB128	11			125
2N4913	2SC 1434	2SD181A					2SC 808		- 115
2N4914	2SC 1434	2SD181A		10 10 10 10 10 10 10 10 10 10 10 10 10 1			2SC808		3995
2N4915	2SC 434	2SD181A					2SC808		1 - 716
2N4916		2SA552	2SA548		2SA550A	2SA558	-	2SA532	1 1 9/17
PN4916		2SA552		1	1975		Z = 10.7	2SA532	1. 2464
2N4917		2SA552	2SA548	1	2SA550A	2SA558	7	2SA532	1-3/75
PN4917		2SA552	32.12.13	V 7	100			2SA532	Liperson
2N4960		2SC97A				2SC 1069	1.		mala
2N4961		2SC97A				2SC 1069			328211
2N4962	-	2SC97A	-			2SC 1069			SHEW.
2N4963		2SC 97 A				2SC 1069			45 Sec.
2N5002	1	2000	2SD50	1.		2SD50	2SD47		772mm
2 N 5 0 0 3	2SB530	2SB506					2SB518	1 1	PAPER
2N5004	200000	20000	2SD50	1		2SD50	2SD47	7 77.2	122
2 N 5 0 0 5	2SB530	2SB506	20000				2SB518	1 1 1 1 1 1 2	STORE !
2 N 5 0 2 2	200330	2SB239		1		2SB456	1		TANK DEL
2 N 5 0 2 3	+	2SB239			-	2SB456	1		STREET,
2 N 5 0 5 8	-	230233		1		200400	-	112 1451	133 30 10
2N5058 2N5059	{ 			1			C 2	1 1 1 1 1 1	
2N5059 2N5067	2SC 1433	2/4	-	1.	+		2SC 808	473	10000
2N5067 2N5068	2SC 1433	÷ .		+	-		2SC 808	12 1 1 1 H	
2N5068 2N5069	2SC 1433			1-			2SC 808		TOWN TO
	2301433						2SA705	1 1 1 1 1 1 1 1 1	1
2N5086	L				L	L	204103		

FAIRCHILD

		¥	1		MAXIM	UM	RATIN	GS		_			E	LECTRICA	AL CHAR	ACTER	ISTICS		_			Γ	
TYPE	USE		POLATITY	Pc	Tĵ	Ves	VCE	lc	lo	080	1	hre		hfe	hie	hre	hoe	ft.	NF	Cob	Courbb	OUTLINE	NOTE
		MA	G	25°C (mW)	1:01		(v)		(µA)	Vos(V) min.	max.	ic(mA)	1	(Ω)	(×10)		*fae **fao (MHz)	(dB)	(pF)	(ps)	то.	HOLE
2N5087	Α	S	F) IV	V 150	50	50	50			250	800	0.1	600		T		40	2			92	
2N5088	Α	S	N	625	150	35	30	50	50n	20	300	900	0.1	900				50	3			92	
2N5089	A	S	N	625	150	30	25	50	50n	15	400	1200	1.0	1150				50	2	-		92	
2N5126	A	S	N	200	125	20	20		In	10	20	350	4	200					5.5	_		18	
PN5126	A	S	N	625	150	20	20		In	10	20	350	4	200					5.5		 	92	
2N5127	A	S	N	200	125	20	12	100	50n	10	15	300	2		_						٠,	18	
2N5128	A/S	S	N	200	125	15	12		50 n	10	35	350	50									5	
PN5128	A/S	S	N	625	150	15	12	1	50n	10	35	350	50			1			_			92	
2N5129	A/S	S	N	300	125	15	12		50n	10	35	350	50							_		18	
PN5129	A/S	S	N	625	150	15	12		50 n	10	35	350	50									92	
2N5130	Α	S	N	200	125	30	12	50	50n	10	15	250	8						4			18	
PN5130	Α	S	N	300	150	30	12	50	50n	10	15	250	8						4			92	
2N5131	A	S	N	200	125	20	15		50n	10	30	500	10	310							_	18	
PN5131	Α	S	N	625	150	20	15		50n	10	30	500	10	310								92	
2N5131	3 A	S	N	200	125	20	20		50n	10	30	400	10	340		П			4			18	
PN5132	Α	S	N	625	150	20	20		50n	10	30	400	10	340					4	<u> </u>		92	
2N5133	Α	S	N	200	125	20	18		50n	15	60	_	- 1	570							\vdash	18	
PN5133	Α	s	N	625	150	20	18		50n	15	60	1000	1	570		-		L		-	\vdash	92	
2N5134	SH	s	N	200	125	20	10	100	1	15	20	150	10					250			\vdash	18	
PN5134	SH	S	N	625	150	20	10	100	Ť	15	20	150	10	\vdash				250			\vdash	92	
2N5135	A	S	Ν	300	125	30	30	200	0.3	15	50	600	10	-				40				5	
PN5135	A	S	Ñ	625	150	30	30	200	0.3	15	50	_	10			-		40				92	
2N5136	A	S	N	300	125	30	30	300	0.1	20	20	400	150	\vdash				40				5	
PN5136	A	s	N	625	150	30	30	500	0.1	20	20		150					40				92	
2N5137	Α	S	N	220	125	30	30	500	0.1	20	20	400	150	Н		-	-	40				18	
PN5137	Α	S	Ñ	625	150	30	30	500	0.1	20	20	400	150				-	40			-	92	
2N5138	Α	S	Р	200	125	30	30		50n	20		800	0.1	520				40			\vdash	18	
PN5138	Α	S	Р	625	150	30	30		50n	20	50	800	0.1	520	-		_	_			\vdash	92	
2N5139	A/S	s	P	200	125	20	20	100			40	150	10	320			-	300				18	
PN5139	A/S	s	Р	625	150	20	20	100			40	150	10			-		300			-	92	
2N5142	A/S	S	Р	300	125	20	20	500			30		50	_		-		300			-+	5	
PN5142	A/S	S	Р	625	150	20	20	500			30		50			-						92	
2N5143	A/S	S	Р	200	125	20	20	500		-	30		50			-	-						
PN5143	A/S	S	P	625	150	20	20	500			30	-	50									18	
2N5209	A	s	N	625	150	50	50	50	50n	35	100	300	0.1	370		-	-	20	2			92	
2N5210	Α	S	N	625	150	50	50	50	50n	35		600	$\overline{}$	_		-		30	3			92	
2N5219	A	s	N	625	150	20	15	100	0.1	10		500	0.1	570 770		-		30	2		\rightarrow	92	
2N5223	A	s	N	625	150	25	20	100	0.1	10		800	2	825		-	\dashv	150		-	\rightarrow	92	
2N5220	Α.	s	Ň	625	150	15	15	500	1.0	10	_	600	50	915			\dashv	150		-	\rightarrow	92	
2N5221	A	s	P	625	150	15	15	500	0.1	10		600	50	915		\dashv	\dashv	100	\dashv			92	
2N5224	S	s	N	625	150	25	12	100	0.5	15		400	10	313	\rightarrow	\dashv	\dashv	100			-	92	
2N5225	A	s	N	625	150	25	25	500	0.3	15		600	50	015		\dashv	\dashv	250				92	
2N5226	A	S	P	625	150	20	25	500	0.3	15		600	50	915	\rightarrow	+	-	50				92	
2N5227	A	s	P	625	150	30	30	50	0.1	10		700	2	915	\rightarrow	-	-	50				92	
2N5228	S		P	625	150	5	5	50	J. 1	-10	15	,00	10	-	_	\rightarrow	\rightarrow	100			\rightarrow	92	
2N5301	P	_	N	200W	200	40	40	30 A	1000	40	15	60	_	40	-	-	\dashv	300			_	92	
N5302	P		N	200W	200	60	60	30A	1000	60	\rightarrow	$\overline{}$	15A	40		+	\dashv	2	\rightarrow		\dashv	3	
N5302	P	\rightarrow	N	200W	200	80		20A	_	_	15	_	IOA	40		_	\rightarrow	2				3	
2N5320	_	\rightarrow	N	10W	200	100	80 75	\rightarrow	1000	80	_	60	IOA	40			-+	2		\dashv	_	3	
N5321	-	\rightarrow	_			_		2A		-+		-	500	5	\dashv	+	\rightarrow	-			\rightarrow	5	
N5321	\rightarrow	\rightarrow	N P	10W	200	75	50	2A		\rightarrow	-	_	500	5	_	_				\perp		5	
N5322	\rightarrow	_	-	10W	200	100	75	2A			$\overline{}$		500	5		_						5	
	\rightarrow	_	Р	10W	200	75	50	2A			_	$\overline{}$	500	5	\perp	\perp						5	
N5334	_		N	6W	200	60	60 -	3A	5	60	_	150	IA									5	
N5335		_	N	6W	200	80	80	3A	5	80		150	IA							75	T	5	
N5336	Р	S	N	6W	200	80	80	5A	10	80	30	120	2A			-4	Т	T		75		5	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5087							2SA705		100
2N5088	2SCB86A			2SC 1313	2SC 1345				V . M.
2 N 5 0 8 9	2SC 1386 A			2501313	2SC 1345		-		100
2N5126		2SC 943	2SC 281					2SC 536	
PN5126	2SC 594	2SC 594		2SC 594		2SC 285A		2SC875	11 (15)
2N5127	2SC504			2SC 306	-	2SC 200			12.1
2N5128	2SC 504			2SC 306		2SC 200			94
PN5128	2SC 504			2SC 306		2SC 200	*		1,116
2N5129	2SC504			2SC306		2SC 200			
PN5129	2SC 504			2SC 306		2SC 200	1 2		
2N5130	2SC 979		1	2SC 302				2SC 933	
PN5130	2SC 979			2SC302				2SC933	
2N5131	2003/3			2SC 303	2SC 456			2SC876	*
PN5131		(1	2SC 303	2SC 456			2SC876	1,522
2N5132	-		 	2SC 303	2SC 456			2SC876	1
PN5132	-	-	1	2SC 303	2SC456	-		2SC 876	
2N5133	-		2SC 166						= 4.1
PN5133		,	200.00			2SC 188			
2N5134	2SC 504			2SC 306		2SC 200			- 4
PN5134	2SC 504			2SC306		2SC 200			100
2N5135	200304			2SC304	4	2SC 198A		2SC875	
PN5135				250304		2SC 198A		2SC 875	
2N5136	-		+	2SC 304		2SC 198A		2SC 875	
PN5136			+	2SC 304		2SC198A	The sale	250875	- L'2-
2N5137			 	2SC 304		2SC 198A	7	2SC 875	
PN5137	-		_	2SC 304		2SC 198A	7 N 1	2SC 875	* * * * * * * * * * * * * * * * * * * *
2N5138	2SA482	2SA606	1	100004		55 101 54			100
PN5138	2SA482	2SA606	-	-		04 Pr 8 1			
2N5139	23A402	2SA552	+	1	2SA546	G 71		2SA532	, 350
	 	2SA552 2SA552	}		2SA546	-		2SA532	
PN5139	2SA513	2SA552 2SA571	2SA537		207340				14
2N5142	2SA513 2SA513	2SA571	2SA537				-		111111
PN5142		2SA571	2SA537		10				1- 11
2N5143	2SA513	2SA571	2SA537		-	-			
PN5143	2SA513	25A5/1	25A557	-	-			-	1
2N5209					_				1
2N5210			-	2SC 774	-	-	2SC352	1	
2N5219		2SC 38		2SC774		-	2SC 352		1.000
2 N 5 2 2 3	-50000	2SC38		230114	1	+	200002		1 7
2N5220	2SC 367			1	-	-	1	-	10.10
2N5221	2SA467	20027	2SC 479	+	-	2SC233		-	1 1
2N5224	100:00	2SC97	2504/9	+	-	200200		+	
2N5225	2SC498							+	1 1 6
2N5226	2SA498	-	1	+				+	128
2N5227	_	-01	1	-	-	-	-	1	14.19
2N5228		2SA552		-	-	1000	-	1	1000
2N5301	2SD113		+	+	-	-	+		1 4 4 1 1 1
2N5302	2SD113		-		-	-		+	1 24 64
2N5303	2SD55	- 00 10	+		-		2SD49	-	1,75/1
2 N 5 3 2 0	-	2SD49	1			-	2SD49	-	20,000
2N5321		2SD71		-			23049	-	18316
2N5322					-	-	+		ALC: NO
2N5323						-	 		-
2N5334					2SC697A	-		-	-
2N5335	1				2SC697A	_			
2N5336									

FAIRCHILD

		SIAL	E	-	AXIMU	M 8	ATING	S	-				Ð	ECTRICA	L CHAR	RACTER	ISTICS	Г.				OUTLINE	
TYPE	USE	MATERIAL	POLAUTY	Pc 25 °C	T	Vca	VCEO	le (-A)	la.		-	hre	1.60	hfe	hie (Q)	hre (×10)	hoe (μδ)	fT *fae **fae	NF (dB)	Cob	Coxrbb'	TO.	NOTE
2N5337	P	S	N	(mW)	(°C)	(v)	(V)	(mA)	(AA)	Vas(V)	min.	max.	Ic(mA)		(34)	(~10)	(μ0)	**fa0 (MHz)	(00)	(pF)	(ps)		
2N5338	P	S	N	6W	200	100	-	-		80	30	120	_			-		-				5	
2N5339	P	S	N	6W	200	100	100	5A	10	100	60	-	2A			-		-		-		5	
2N5400	A	S	P	625	150	130	120	600	0.1	100	60 40	4000	-			-	-		-	-	-	5	
2N5401	A	S	P	625	150	160	150	600		100		180	10	115		-		_	8	6		92	
2N5455	S	S	P	340	200	25	25	1000	50n	120	60	240	10	120					8	6		92	
2N5456	S	S	P	340	200		-	300			30	120	30			-						18	
2N5457	-	S	+	-	-	15	15	300			30	120	30		_	_	-	_		-		18	_
2N5458	FET	S	N	625	150		-			-	_		-	41					3			92	15
2N5459	FET	S	N	625	150	-	-				-	-	-			-	_	_	3			92	
2N5484	FET	S	N	625	150	-	-				-	_	_	-	_				3			92	-
	-		-			-		-				_	-						2.5		-	92	
2N5485	FET	S	N	625	150		_	_		ļ.,	_	-		_		-	_		2.5			92	
2N5486	FET	S	N	625	150						1		-			-	_		2.5	_		S2	
2N5550	A	S	N	625	150	160	140	600	0.1	100		250	10	125		-		<u> </u>	10	6	in a	92	
MPS5551M	A	S	N	625	150	180	160	600	50n	120	80	250	10	125					8	6		92	
2N5668	FET	S	N	625	150				80		_	_				-			2.5			92	
2N5669	FET	S	N	625	150				<			-				-	-		2.5			92	
2N5670	FET	S	N	625	150		165	-											2.5			92	
2N5679	Р	S	P	10W	200	100	100	IA	-	100	40	150	250	40				30		50		5	
2N5680	Р	S	P	10W	200	120	120	IA	- 1	120	40	150	250	40		_		30		50		5	
2N5681	Р	S	N	10W	200	100	100	IA	1	100	40	150	250	40				30		50		5	
2N5682	Р	S	N	IOW	200	120	120	IA	- 1	120	40	150	250	40				30		50		5	
2N5769	S	S	N	625	150	-40	15	500	0.4	20	20		10				- 1			4		92	
2N5770	A	S	N	IW	150	30	15	50	10n	15	20		3							1,7		92	
2N5771	S	S	P	625	150	15	15	50	10n	8	50	120	10									92	
2N5830	A	S	N	625	150	120	100	600	50n	100	80	500	10	60	6		40					92	
2N5831	Α	S	N	625	150	160	140	600	50 n	120	80	250	10	60	6		40					92	
2N5832	Α	S	N	625	150	160	140	600	50n	120	175	500	10	125	6		40					92	
2N5833	A	S	N	625	150	200	180	600	10n	160	50	250	10	50	6		40					92	
2N5845	SH	S	N	625	150	50	40	600	0.5	40	25	150	500								10 COO	92	
2N585A	SH	S	N	625	150	50	40	600	0.5	40	35	150	500			1						92	
2N5855	A	S	P	750	135	60	60	IA	0.1	40	50	300	150							15		5	
PN5855	A	S	P	625	150	60	60	1A	0.1	40	50	300	150							15		92	
2N5856	A	S	Ň	750	135	60	60	1A	0.1	40	50	300	150							15		5	
PN5856	A	S	N	625	150	60	60	IA	0.1	40	50	300	150						ng/	15		92	
2N5857	Α	S	P	750	135	80	80	IA	0.1	60	50	300	150							15		5	
PN5857	A	S	Р	625	150	80	80	IA	0.1	60	50	300	150							15	,	92	-
2N5858	Α	s	N	750	135	80	80	IA	0.1	60	50	300	150							15		5	
PN5858	A	S	N	625	150	80	80	IA	0.1	60	50	300	150							15	1	92	_
2N5871	Р	S	р	100W	200	60	60	7A	250	60	20	100	2.5A	20	1					300		3	_
2N5872	Р	S	P	100W	200	80	80	7A	250	80	20	100	2.5A	20						300		3	
2N5873	Р	S	N	100W	200	60	60	7A	250	60	20	100	2.5A	20					-	250		3	
2N5874	P	S	N	100W	200	80	80	7A	250	80	20	100	2.5A	20						250		3	
2N5875	Р	S	p	150W	200	60	60	IOA	500	60	20	100	4A	20						500		3	
2N5876	P	S	P	150W	200	80	80	I0A	500	80	20	100	4A	20			1	- 1		500		3	
2N5877	Р	S	N	150W	200	60	60	IOA	500	60	20	100	4A	20						300		3	
N5878	Р	S	N	150W	200	80	80	I0A	500	. 80	20	100	4A	20						300		3	
N5879	Р	S	Р	160W	200	60	60	I5A	500	60	20	100	6A	20						600		3	
N5880	P	S	p	160W	200	80	80	15A	500	80	20	100	6A	20			-			600		3	
N5881	Ρ.	S	N	160W	200	60	60	15A	500	60	20	100	6A	20						400		3	
N5882	Р	S	N	160W	200	80	80	15A	500	80	20	100	6A	20					1 2	400	\dashv	3	
N5883	P	S	P	200W	200	60	60	25A	1000	60	20	100	IOA	20			7.5			1000		3	
N5884	Р	S	Р	200W	200	80	80	25A	1000	80	20	100	IOA	20						1000		3	_
N5885	Р	s	N	200W	200	60	60	25A	1000	60		100	IOA	20	_			-		500	-	3	
N5886	Р	S	N	200W	200	80	-	25A	1000	80		100	IOA	20		-	-			500	\dashv	3	

TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO -	NOTE
2 N 5 3 3 7					16			7	11112
2 N 5 3 3 8									100
2 N 5 3 3 9									
2N5400	2SA516A	2SA653		2SA698					
2N5401		2SA653							2 1 1 1
2N5455	2SA478	2SA712							
2N5456	2SA478	2SA712							711
2N5457							1		FET
2N5458									FET
2N5459									FET
2N5484									FET
2N5485									FET
2N5486									FET
2N5550	2SC 783		2SC 1409A						3
MPS5551M	2SC 783		2SC 1409A						1 18
2N5668									FET
2N5669		-							FET
2N5670									FET
2N5679				2SB528					11-54
2N5680				2SB528					1
2N5681				2SD358				120	7.5
2N5682				2SD358					
2N5769	2SC 108			200000		2SC 233			
2N5770	230100		1			200200			-
2N5771		2SA552	1			2SA559	2SA678		1 .
2N5830	2SC510	20/332		2SC310	-	207.000	2501124		
	250510	-		2SC310	-		2501124		81
2N5831	250510		-	2SC310			2501124		
2N5832	230310			230310			2001124		+
2N5833	000000		200470		-	2SC 906			_
2N5845	250503		250479		-	2SC 906			-
2N5845A	2SC503	-	250479			230300			
2N5855		-	2SA743A		-				-
PN5856			2SC 1212A		_				-
2N5856			2SC 1212A						-
PN5856	7		2SC 1212A				-		
2N5857			2SA743A			1	-		1
PN5857			2SA743A						-
2N5858			2SC 1212A		-				1
PN 5858			2SC 1212A					-	-
2N5871	2SB558	2SB539							-
2N5872	2SB558	2SB539							1-10
2N5873	2SD113		2			2SD53			195
2N5874	2SD113					2SD53			1
2N5875	2SB554								
2N5876	2SB554								34
2N5877	2SC 1434	2SD132				2SD54			E Herri
2N5878	250 1434	2SD132				2SD54			
2N5879	2SB554		2.		11			1	
2N5880	2SB554							0.5	
2N5881	2SD55								
2N5882	2SD55								
2N5883	20000					(4)		V 11 12 28 1	
2N5884		1					1 1 1 1		O-EE
2N5885	2SD114	-					1 1 1 1 1	Na himoso	
2N5886	2\$D114 2\$D113		-		1		776		

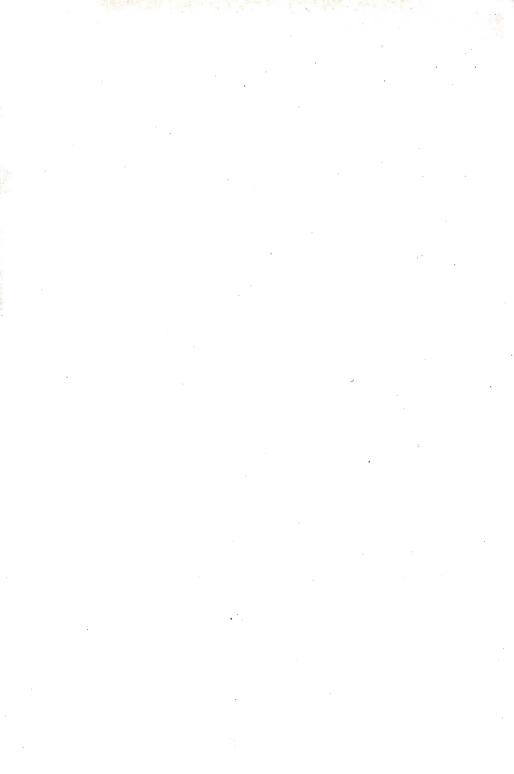
FAIRCHILD

		A	1		AXIMU	M R	ATING	3					EL	ECTRICA	CHAR	ACTER	ISTICS				_		
TYPE	USE	MATERIAL	POLALITY	Pc 25°C	Tj	Vcs	VCEO	lc	le	80	1/2	hre		hfe	hie	hre	hoe	fr *fae	NF	Cob	Coxrbb'	OUTLINE	NOT
72				(mW)	(°C)	(V)	(V)	(mA)	(µA)	Vos(V)	min.	max.	lc(mA)	100000	(Q)		(µ0)	**fap (MHz)	(dB)	(pF)	(ps)	TO.	
2N5910	SH	S	P	310	135	20	20	50			30	120	10			= 11 = 5	-150					18	100
PN5910	SH	S	P	625	150	20	20	50			30	120	10									92	
2N5961	A	S	N	625	150	60	60	50	2n	45	150	700	10	575					6			92	1
2N5962	A	S	N	625	150	45	45	50	2n	30	600	1400	10	1300					6			92	
N5963	A	S	N	625	150	30	30	50	2n	20	1200	2200	10	2100					6			92	
2N6121	P	S	N	40W	150	45	45	4A	100		25	100	1.5A	25		-:						220	
N6122	P	S	N	40W	150	60	60	4A	100		25	100	1.5A	25								220	
N6123	P	S	N	40W	150	80	80	4A	100		20	80	1.5A	25								220	1
N6124	Р	Ş	P	40W	150	45	45	4A	100		25	100	1.5A	25								220	
N6125	Р	S	P	40W	150	60	60	4A	100				1.5A	25				300				220	
N6126	Р	S	P	40W	150	80	80	4A	100		20		1.5A	25								220	
N6129	Р	S	N	50W	150	40	40	7A	100		20	100	2.5A	25							J	220	
N6130	Р	S	N	50W	150	60	60	7A	100		20	100	2.5A	25					100			220	
N6131	Р	S	N	50W	150	80	80	7A	100		20		2.5A	25								220	
N6132	Р	S	P	50W	150	40	40	7A	100		20		2.5A	25								220	
N6133	Р	S	P	50W	150	60	60	7A	100		20		2.5A	25								220	
N6134	Р	S	Р	50W	150	80	80	7A	100		20		2.5A	25								220	
N6233	Р	S	N	50W	200	250	225	IOA	100	250	15	125	IA							250		66	
N6234	Р	S	N	50W	200	300	275	10A	100	300	25	125	IA							250		66	
N6235	Р	S	Ν	50W	200	350	325	10A	100	350	25	125	1A							250		66	
E9051	Р	S	Ν	50W	200	300	275	I0A	100	300	20	100	IA					20		250		66	
E9052	P	S	Ν	50W	200	325	325	I0A	100	325	20	100	IA			. 7/2		20		250		66	
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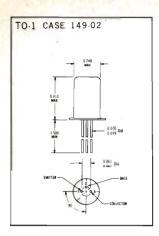
TYPE	TOSHIBA	N C	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
2N5910		2SA552				2SA559	2SA678		115
PN5910		2SA552							1 1
2N5961		2SC 1400					2SC632A		
2N5962		2SC 1400					2SC632A		1 -
2N5963		2SC 1400					2SC 632 A		
2N6121	250493	2SD180	2SC 897		2SC647			2SC 1051	
2N6122	2SC 493	2SD180	250897		2SC 647			250 1051	
2N6123	2SC 493	2SD180	250 897		2SC 647			250 1051	
2N6124	2SA657		2SB87					2SB411	
2N6125	2SA657		2SB87					2SB411	
2N6126	2SA657		2SB87		W E			2SB411	L 135
2N6129			2SC 897						
2N6130			2SC 897				100-30-3		
2N6131			2SC 897						1.0
2N6132			2SB87	(4)	2SB129			2SB410	
2N6133	1011		2SB87		2SB129			2SB410	
2N6134			2SB87		2SB129		=	2SB410	
2N6233 🕺	2SC 1434	2SD181A	2SD429				2SD262	T.	- 17 -
2N6234	2SC 1434	2SD377 1	2SD429		-		2SD262		
2N6235	2SC 1434	2SD377	2SD429					-	
SE9051	2SC 1434	2SD377	2SD429				2SD262		-
SE9052	2SC 1434	2SD377	2SD429	- market					
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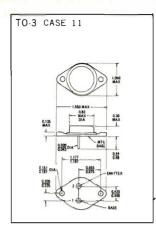
		¥	~		XIMU	M R	ATINGS	S					EL	ECTRICA	L CHAR	ACTER	STICS					OUTLINE	
TYPE	USE	MATERI	POLALITY	Pc 25*C	Tj	Vca	VCEO	lc (-4)	Ice	100		hre		hfe	hie	hre	hoe	fr *fae **fab (MHz)	NF	Cob	Coxrbb	TO.	NOTE
	_			(mW)	(.c)	(V)	(V)	(mA)	(μA)	Vos(V)	min.	max.	Ic(mA)		(Q)	(×10)	(μΩ)	(MHz)	(dB)	(pF)	(ps)		
SPT2770	P	S	N	200W	175	75	60	20A			40		5A									63	
2N3055	Р	S	N	115W	200	100	60	15A			20	70	4A									3	À.
SPT3055-1	P	S	N	115W	200	80	50	-			15		3A	10							_	3	
N3232	Р	S	N	117W	200	60	60	7.5A			18	55	3A	- 1								3	
N3235	Р	S	N	117W	200	55	55	15A			20	70	4A	1							_	3	
2N3439	Р	S	N	10W	200	-	350	IA	20	360	40	160	20	25		-				10		5	
2N3440	P	S	N	10W	200	300	250	IA	20	250	40	160	20	25						10		5	
N3713	Р	S	N	150W	200	80	60	IOA			25	90	IA	4								3	
2N3714	P	S	N	150W	200	-	80	IOA			25	90	IA	4								3	
2N3715	Р	S	N	150W	200	80	60	IOA			50	150	IA	4								3	
2N3716	P	S	N	150W	200	100	80	10A	1		50	150	IA	4								3	
SPT3738	Р	S	N	20W	175	250	225	3A			50		250	10								66	
2N3771	Р	S	N	150W	200	50		30A			15	601	15A	40								3	
2N3772	Р	S	N	150W	200	100		30A			15	601	10A	40								3	
2N3773	Р	S	N	150W	200	160		30A			15	60	8A	40							A	3	
2N3789	Р	S	Р	150W	200	60	60	10A			25	90	IA		8		10	4				3	1.7
2N3790	Р	S	P	150W	200	80	80	IOA			25	90	IA	-				4		1		- 3	
2N3791	Р	S	Р	150W	200	60	60	IOA			50	150	IA		7			4				3	
2N3792	Р	S	P	150W	200	80	80	10A			50	150	IA					4	1.			3	
N4000	P	S	N	15W	200	100	80	IA			30	120	500	2	17-1							5	
2N4001	Р	S	N	15W	200	_	100	IA			40	120	500	2			1.7				-	5	
2N4398	P	S	Р	200W	200	40	40	30A	1000	40	15	60	15A	40	7.			4		-		3	
N4399	Р	S	P	200W	200	60	60	30A	1000	60	15	601	15A	40			-	4			-	3	
SPT4625	P	S	N	87W	175	_	400	IOA	1000	- 00	30	100	2A	40				-		_		3	
2N5281	P	S	P	2W	200	175	150	IA	ı	-	20	200	1			-					_	5	
N5282	P	S	P	2W	200	325	300	IA	1		20	200	i				-				-	5	
2N5301	P	S	N	200W	200	40	40		1000	40	15	60	15A	40		-		2		-	-	3	
2N5302	P	S	N	200W	200	60	60	30A	1000	60	15	60	15A	40		-	-	2	-		-	3	
2N5303	P	S	N	200W	200	80	80	20A	1000	80	15	601		40			-	2	_		-	3	
2N5745	P	S	P	200W	200	_	-	_		-		-	10A	_			-	2			-	3	
SPT6145	P	S	P		200	80	80	20A	1000	80	15	60	10A	40	<u> </u>	-					-		
SP 16145	P	0	P	10W	200	350	350	2A		-	20		100	3		-		-			-	MD14	
	-	-	-		_	-	_	_		-	_	-			_	-	_	-	_	-	-		
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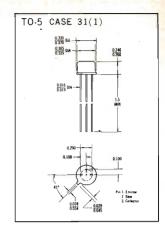
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TYPE	TOSHIBA	NEC	HITACHI	MITSUBISHI	MATSUSHITA	FUJITSU	SONY	SANYO	NOTE
SPT2770	2SD113								
2N3055	2SC1434		2SD341			2SD250			
SPT3055-1	2SC1434		2SD341			2SD250	7%		7
2N3232	2SC1434	2SD153	2SD341		2SD14	2SD54	2SD262		
2N3235	2SC1434		2SD341			2SD250			
2N3439	2SC642	14 15	2SC861		2SD246		2SC867		
2N3440	2SC642		2SC861		2SD246		2SC867		
2N3713	2SC1434					2SD196A			
2N3714	2SC1434					2SD196A			
2N3715	2SC1434					2SD196A			
2N3716	2SC1434			_		2SD196A			
SPT3738	2001404				2SD246		2SC808		
2N3771	2SD113	2SD179			200210				
2N3772	2SD113	2SD179				2SD250			+
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2N3790	2SB554	-							-
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2N3792	2SB554								-
2N4000	2SD102	2SD79	2SD123	2SC766		2SD48		100	-
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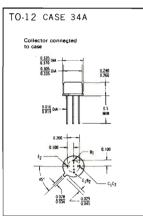


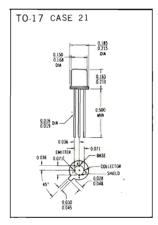
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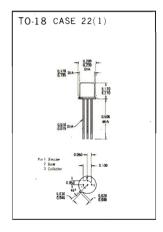


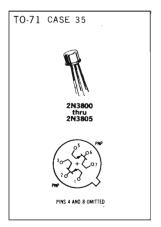


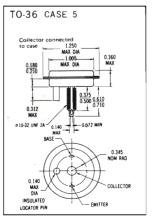


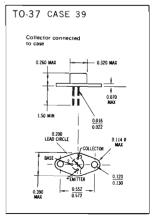


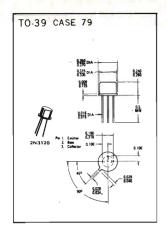


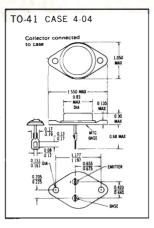


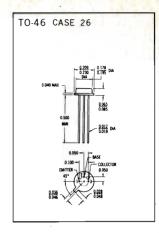


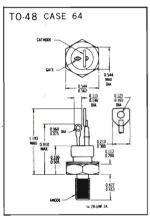


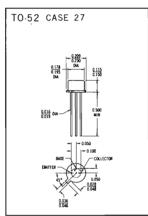


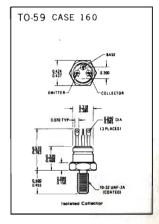


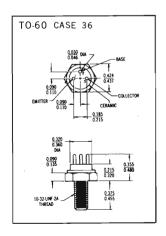


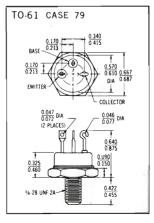


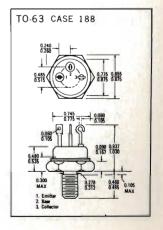


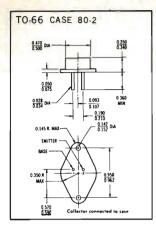


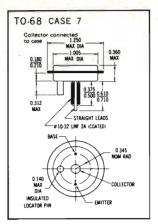


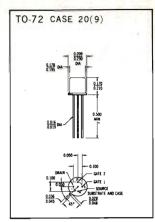


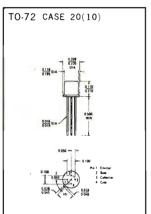


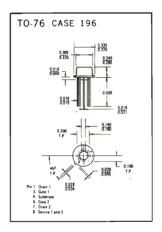


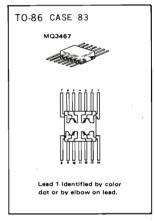


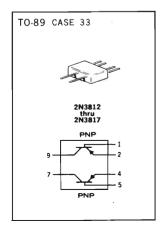


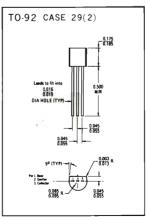


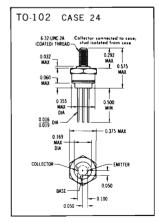


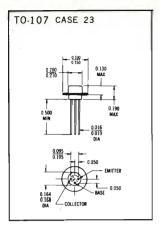


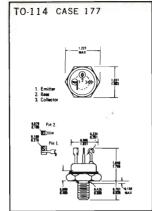


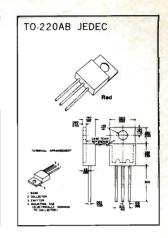


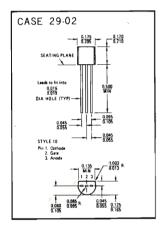




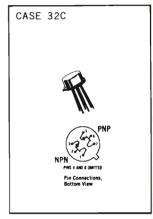


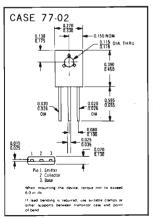


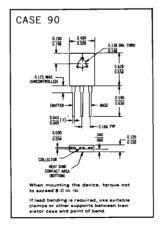


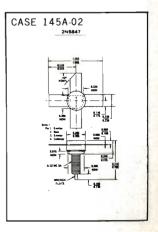


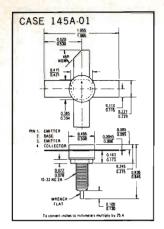


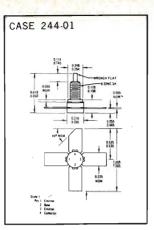


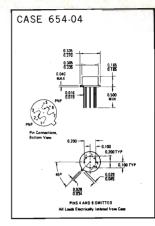


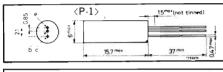


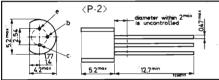


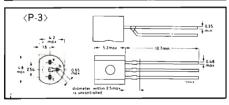


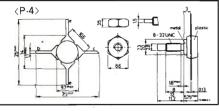


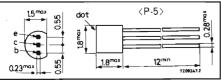


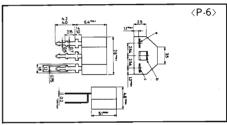


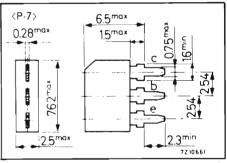


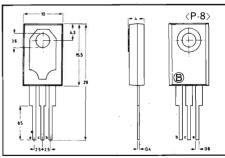


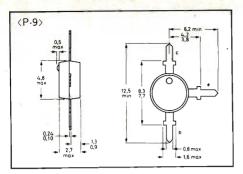


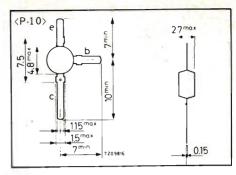


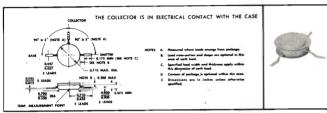


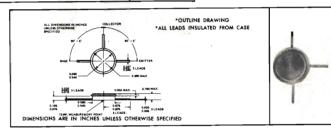


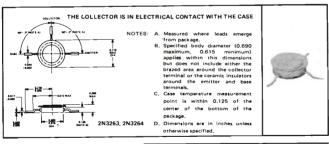


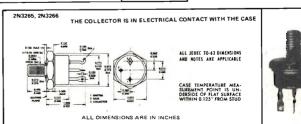




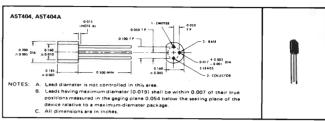


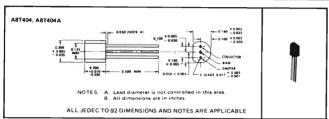


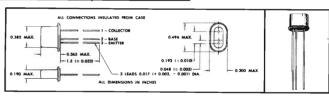


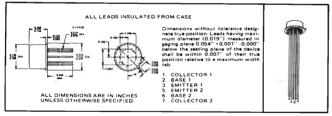


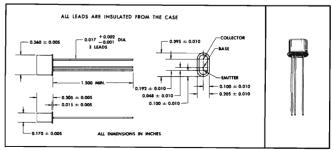


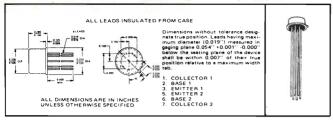


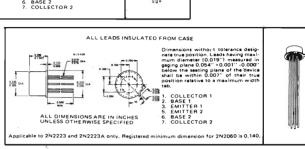


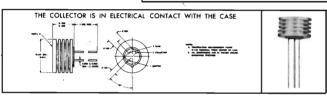


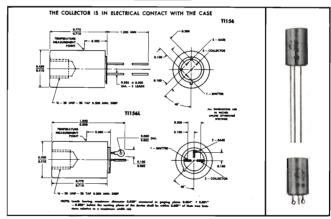


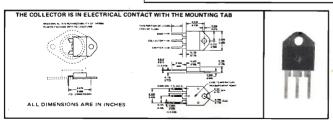


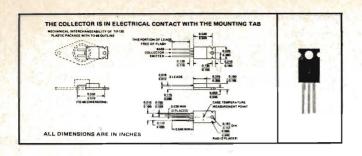


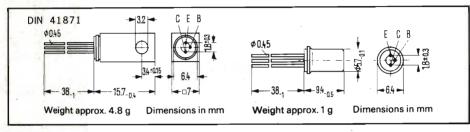


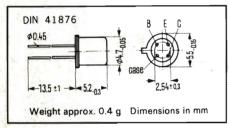


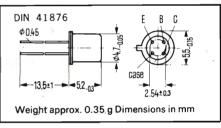


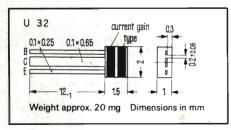


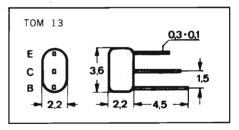


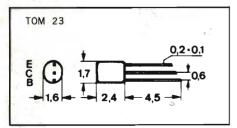














L. 8.000 (L. 7.547)